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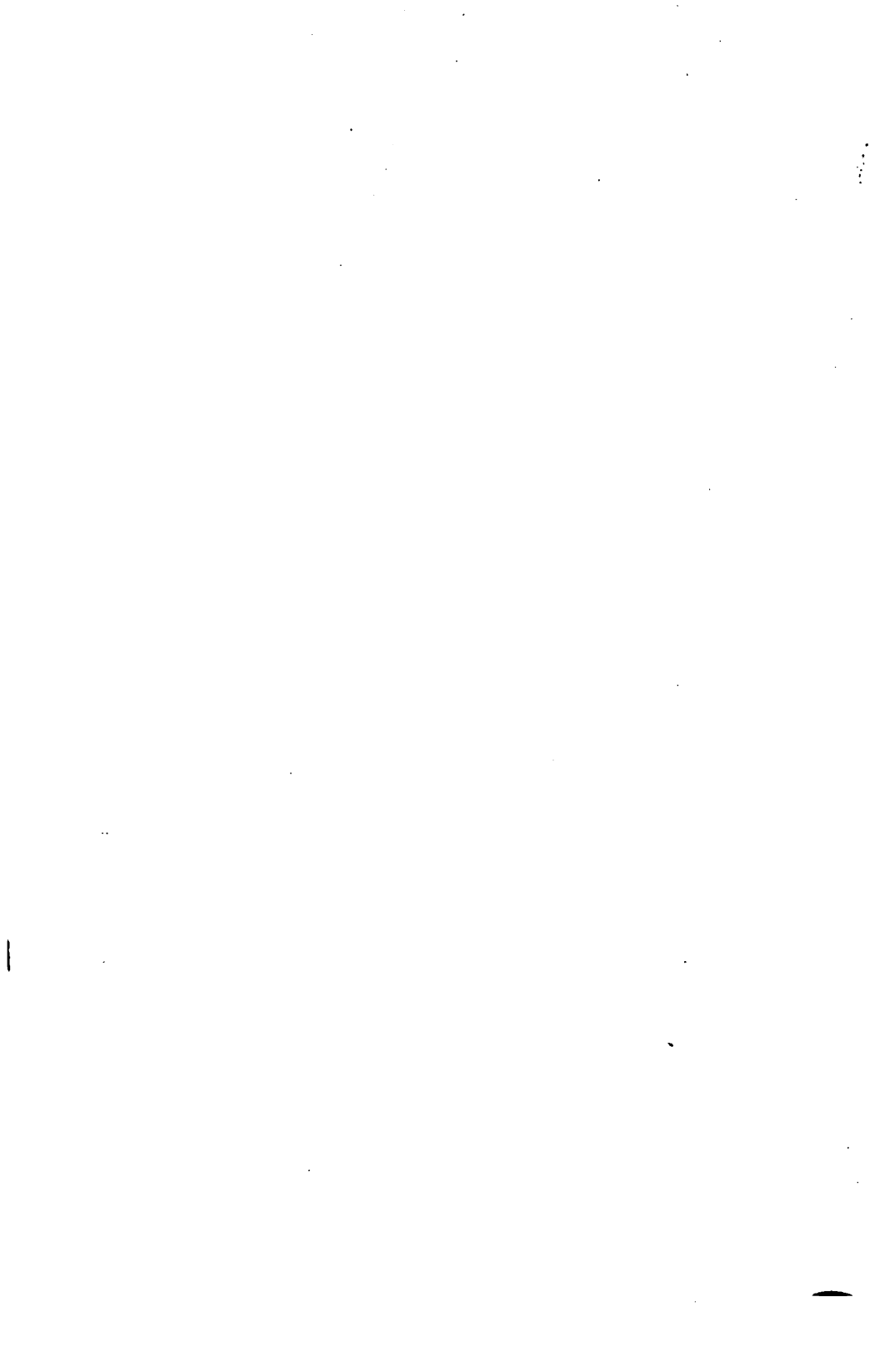
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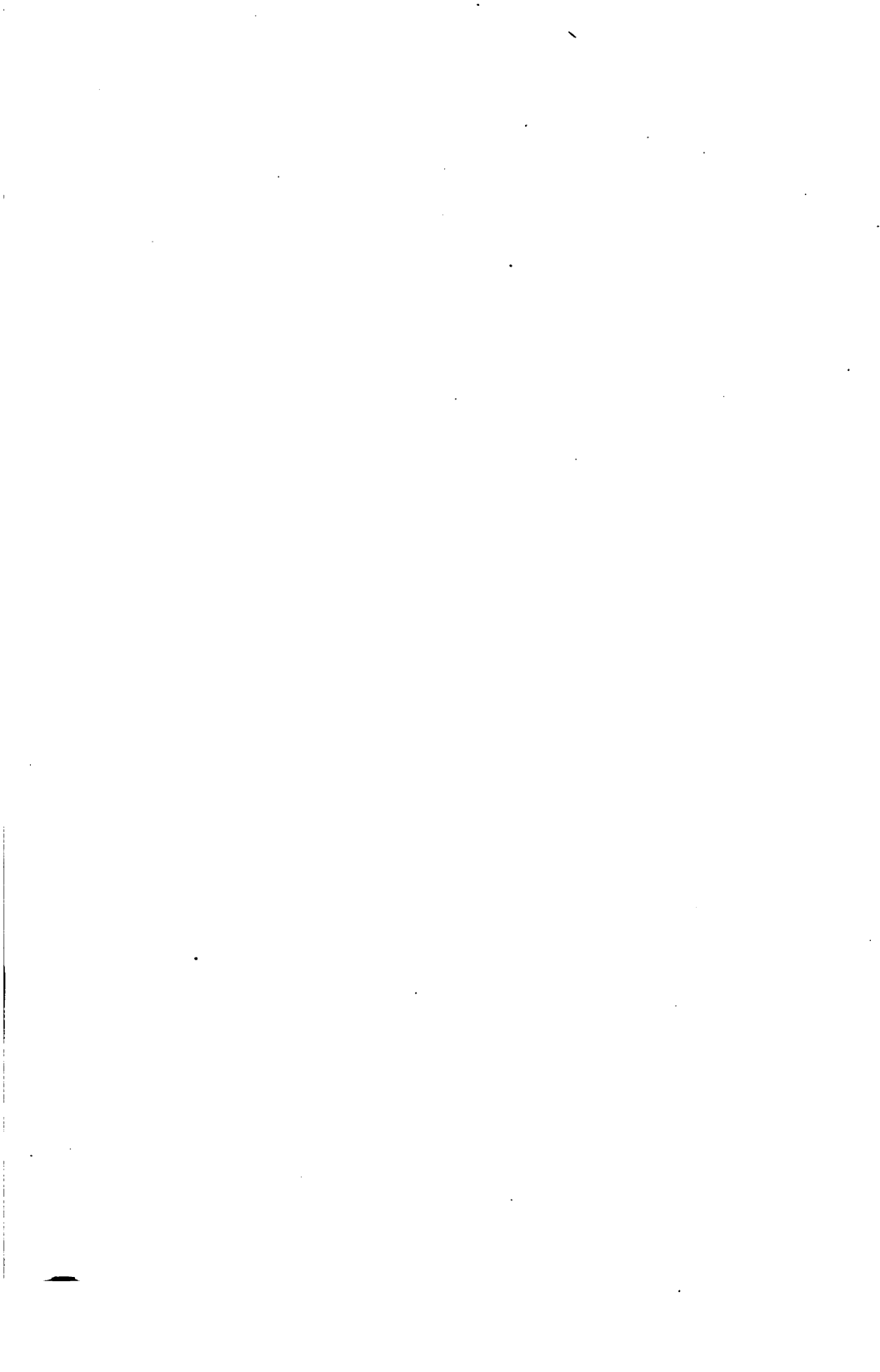
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SIXTH BIENNIAL REPORT

OF THE

BUREAU OF LABOR STATISTICS

OF

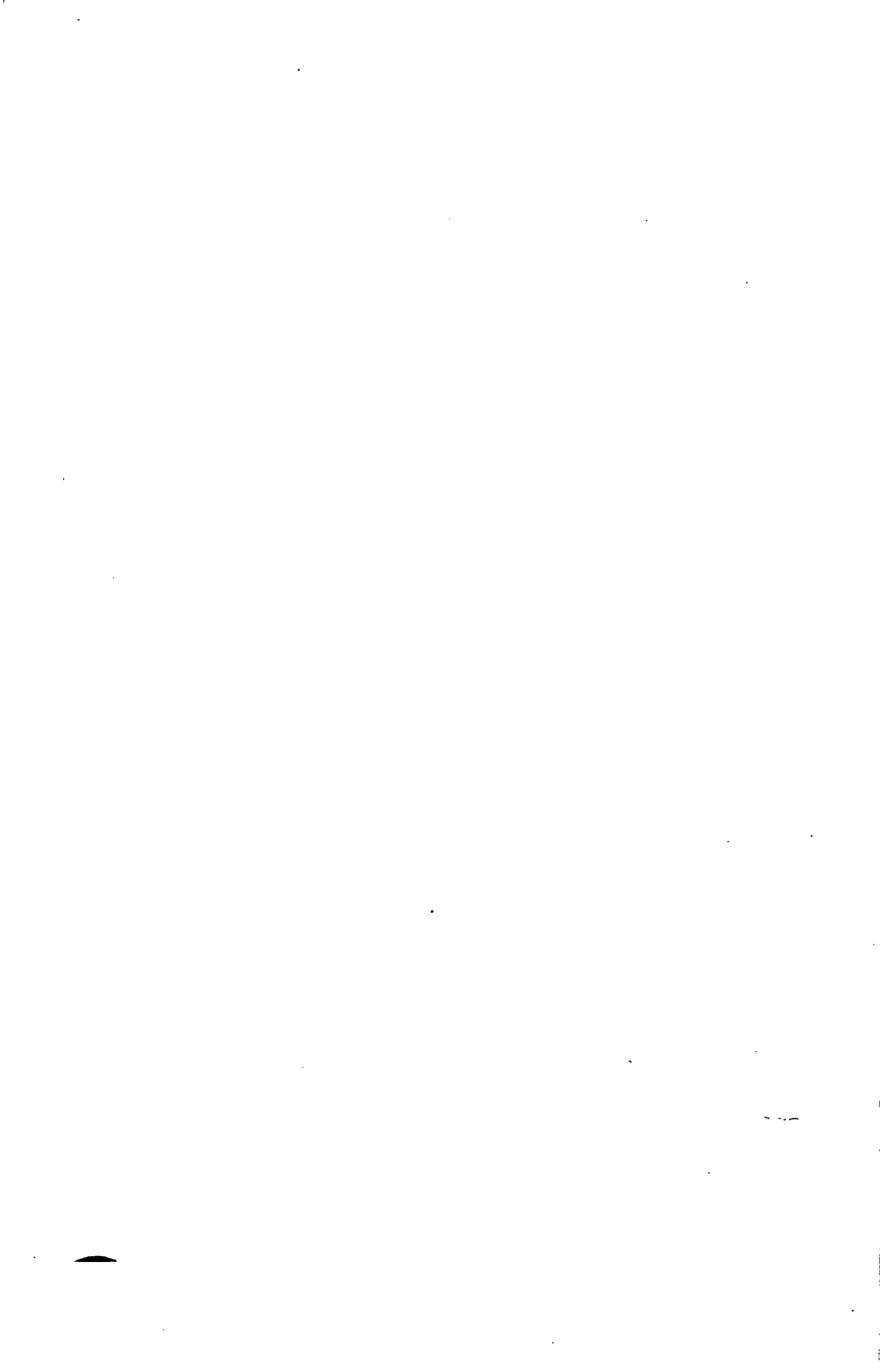
ILLINOIS.

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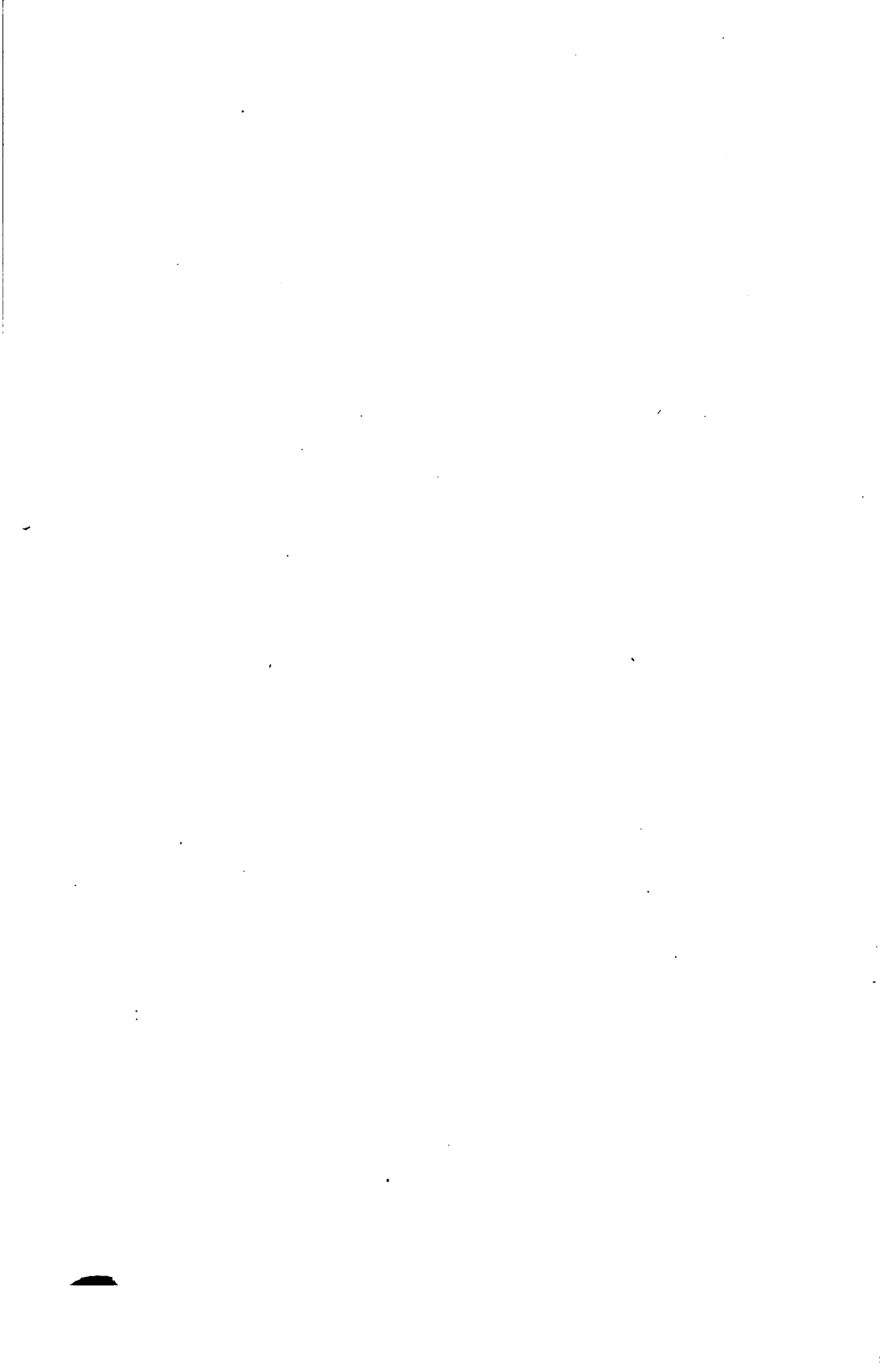
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STATE OF ILLINOIS,  
OFFICE OF THE BUREAU OF LABOR STATISTICS,  
SPRINGFIELD, ILL., November 1, 1890.

HONORABLE JOSEPH W. FIFER, *Governor of Illinois.*

SIR: In compliance with the Act of the Thirty-first General Assembly creating this Bureau, the Board of Commissioners of Labor herewith submit to you for transmission to the Thirty-seventh General Assembly their Sixth Biennial Report.

Very respectfully,

JOHN S. LORD,

*Secretary.*



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## INTRODUCTION.

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This volume constitutes the Sixth Biennial Report of the Bureau of Labor Statistics of Illinois, and contains the statistical results of several special investigations instituted during the last year. The contents of the report are presented in Three Parts, as follows:

PART I.—The first division of this report is devoted to Statistics of the Earnings and Working-time of Employés in and about the Coal Mines of Illinois. These statistics have been compiled from the pay-rolls of some of the principal mines and cover a period of twelve months. The advantages offered by such records and such a method of procedure are manifold. In the first place, nothing is left to conjecture; every detail presented is a matter of fact, recorded with impartiality, for business purposes, and consented to in every monthly settlement by both parties to the transaction. In the second place, the facts are consecutive in occurrence, and comprehensive as to the number of men employed; the error is thus avoided of grouping detached incidents, and the experience of a selected few, as conclusive of the experience of the whole. Thirdly, an opportunity is thus afforded of studying the same set of facts for large groups of men in different parts of the coal-field and working under a great variety of conditions. Finally, the pay-rolls are not only conclusive as to the working-time and earnings of employés, but equally as to the character of their service and the amount of their product.

The bureau has been fortunate enough to obtain access to books and pay-rolls containing the working-record of many thousand men, and recognizes its obligations to those mine-owners who have exposed their accounts to inspection in order to promote the objects of this investigation.

PART II.—This division of the report is devoted to three groups of statistics which have been collected and tabulated as supplementary to the statistics of mortgage indebtedness

published in the last biennial report of the bureau. The investigation on which that report was based was undertaken with a view of obtaining some facts as to the volume of private indebtedness as shown upon the public records. Although it was found impossible at that time to get beyond an examination of the records of mortgages, yet it was recognized that the court records of judgments rendered against debtors, and constituting liens upon real estate, were equally record evidences of private debt, and should fall within the scope of any investigation intended to cover this subject.

During the past year attention has been given to this matter and the court records at every county seat in the State have been examined for judgments. The occasion thus afforded has also been improved to make two other subsidiary investigations of county records; one in regard to foreclosures of mortgages, and the other in regard to the value of lands as shown by the records of deeds. The statistics of these subjects will be found in their proper places. The attempt has not been made to prosecute an exhaustive inquiry in these several fields, any one of which is broad enough to command an extended effort, but simply to bring together some summaries of a general nature as an initial contribution to the statistics of these subjects.

PART III.—The final section of the report consists of the statistics of Coal Production in this State during the last year, and is based upon the annual reports of the State Inspectors of Mines. This part is a serial publication of the bureau, and is issued annually, though on alternate years as a separate pamphlet. It contains very full details of the operation of this industry during the year, with statistics of output, prices, values, the number of men employed, the casualties of the year, and other features of the business, and presents a directory of all the mining places and proprietors in the State.

An Appendix to this section of the report contains the text of a protest against adverse legislation, presented by a number of the principal coal companies of the State to the Thirty-seventh General Assembly, and with it a counter statement and argument, also addressed to the members of the legislature by the coal miners of the State through the officers of their organization.



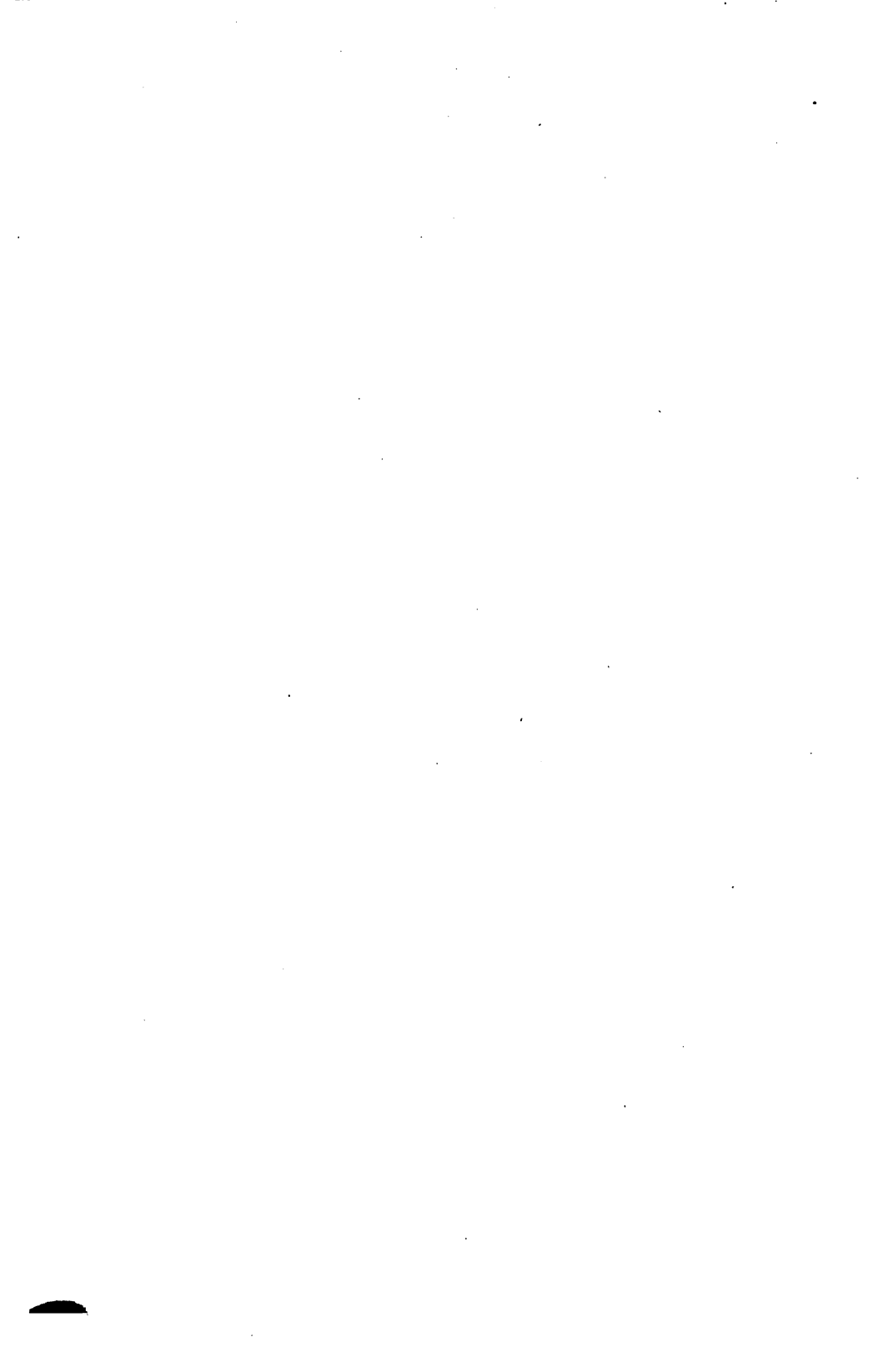
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PART I.

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EARNINGS OF COAL MINE EMPLOYEES IN ILLINOIS.

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## THE EARNINGS OF COAL MINERS IN ILLINOIS.

In the frequent controversies which arise in this State between the proprietors of coal mines and their employés concerning the rate of wages, it usually occurs that so many other business interests are imperilled, and so many appeals are made to the public on behalf of idle and destitute workmen, that a general interest is aroused as to the merits of such conflicts, and more or less effort is made to determine what remuneration the coal miner ordinarily receives for his labor, and what relation it sustains to the wages paid for corresponding labor in other occupations. Ordinarily, however, it is impossible for the public to reconcile the extremes of statement made by the opposing parties, for the reason that the terms of employment are so little understood. There is, in fact, great diversity of skill and earning capacity among miners themselves, and more or less difference in the opportunities afforded to equally good men in the same mine. Moreover, the rate of wages is only an imperfect indication of the possible earnings, because of the great diversity of conditions and irregularity of employment in this industry. It thus happens that the widest variation in actual earnings, even under similar circumstances, is entirely possible and consistent with the miner's environment, and while part of the truth may rest with the proprietor who magnifies the earnings of his men, and part with the miners who report excessively small earnings, the whole truth is something different from the statement of either.

Various attempts have been made to collect statistics showing the measure of reward coal miners, as a class, receive for their labor, but with only partial success. These efforts have, for the most part, been addressed to the miners themselves, and the difficulties in the case arise from the fact that miners do not

often keep personal accounts, and consequently can rarely give an exact statement, for any number of consecutive months, either of their earnings or working-time. On the other hand, those who do keep such a record are usually of the more thrifty sort, and are, consequently, not truly representative of miners in general. Certain, also, of the exceptionally prosperous, as well as of the very poor, are always found to be uncommunicative as to their real experience, and thus the best results in this field must usually be regarded as partial and imperfect. Personal experiences will, it is true, afford much in the way of information that is interesting and picturesque, but for statistical purposes, or as a basis of sound conclusions, they may well be distrusted. On the other hand, whenever a permanent record of any set of facts has been made, and becomes available for analysis, especially if it has been continuous in time and comprehensive in character, it affords a foundation for statistics entirely worthy of confidence.

The purpose of the present investigation has been to arrive at the facts in regard to the earnings of coal miners and other employés through an examination of the pay-rolls and time-books of some of the principal coal companies. Here is found a monthly statement of the character of every man's services, the rate of his wages, the time of his employment, the amount of his product, the incidental charges against him, and the balance paid him. This record is equally complete for all months and for consecutive years; for all conditions of men, miners and other employés, the skilled and unskilled, the competent and incompetent, the transient and the constant worker. Here, if anywhere, should be found an answer to the question,—What does the miner produce and what does he receive?

Upon a statement of the objects of the bureau, access was readily obtained to the books of eleven of the principal mines of the State, located in different parts of the general coal-field, representative of various systems of mining, operating in seams of varying thickness, and presenting great diversity of condition and terms of employment. Though the selected mines are fairly representative of many others, and the presentation, as a whole, must be regarded as generally true of the industry at large, the inquiry could doubtless have been extended with

additional profit and interest to other localities if the resources of the bureau had permitted the additional expenditure involved. The field, however, was found so prolific in material, and the labor of obtaining and reducing it so great, that it was necessary to confine the investigation to rather narrower limits than was at first intended.

The scheme of the investigation contemplated the tracing of each employé who appeared on any pay-roll at any time during a period of twelve consecutive months through his entire service, and the transcribing of all the details of his work and wages for each month on a single abstract or slip. This involved a search through twelve sets of pay-rolls for the record of each man in each mine, or, for the eleven mines, of 132 sets of pay-rolls, and required the examination and transcribing of over 35,000 monthly statements of account. The result was a condensed record on a single abstract of just what each man had done and what he had received for every month of his employment.

The period chosen in which to make this investigation was the year immediately preceding the great strike of 1889. This strike was inaugurated on the first of May of that year and was not settled at all points until November, though the most of the mines resumed operations two months earlier. This made it impossible to obtain a full year's experience subsequent to the strike, as that year has only just expired. The year ending May 1, 1889, was not a prosperous one in the coal business, owing to a mild winter, a weak demand for coal and excessive competition among producers; yet the mines were for the most part kept running, and there was no interruption of business on account of strikes for twelve consecutive months. The period was consequently a favorable one in which to consider the possibilities of coal mining, as it was neither a very good year nor a very bad one. ✓

The long period of suspension and controversy as to wages which immediately followed this year resulted, in the northern part of the field, in a reduction in the rate of mining of seven and a half cents a ton, or from eight to ten per cent. of former wages; but at the end of the fragment of a year remaining after the strike the price of mining was restored to the former rate,

so that the present basis of wages is substantially the same as that shown in the tables of this report. If it is desired to determine the average or individual earnings under the reduction it is only necessary to diminish the amounts shown by the proper percentages.

Although the proposed plan of investigation would seem to involve only simple processes, some difficulties were encountered which it was found impossible wholly to overcome. The chief of these was the determination of the actual working time of the miner.

Coal miners proper are always piece-workers, and, as such, control in greater or less degree their own time. They are paid, not for the number of hours they labor, but for the number of tons of coal they mine and deliver. Ordinarily the working force of a mine is lowered into the pit early in the morning and hoisted out at night after about ten hours labor; and ordinarily the miner does, and is glad of an opportunity to do, a full day's work every day the mine is running; but there is no such discipline or uniformity in the matter of time as when men are employed by the day. The proprietor, while expecting men to work full time, is interested in their product rather than their hours of labor. Of the former he preserves an accurate record, while of the latter the record is only incidental. With the miner also time is only a secondary consideration, the amount of coal he sends out of his room or working place being the measure of his earnings. This amount of coal depends first, on the character of the mineral; second, upon skill in mining, physical strength or endurance; and third, upon the promptness with which the coal is taken out of the miner's way after it is loaded. If he has been fortunate in all these respects the miner may accomplish more than a nominal day's work in less than a day's time and be content to quit before the day is over; but if he has been unfortunate in any or all of these respects, he may work overtime. On the other hand, he may go into his working place on days when the mine is not running and get coal ready to send out as soon as hoisting is resumed.

No record is kept of any of these irregularities of working time. When the mine is running a record is kept of every man's coal which comes to the surface, and the only guide which is afforded by any of the company's books as to the number of days a miner works is found in the book which records the delivery and weighing of his coal. On the days when a man is credited with coal on the company's books, he is supposed to be at work, and he usually is and must be; but even this may not always be true, for coal mined and loaded on a previous day may reach the dump on a day when the miner is not at work at all. This element of error as to the exact working time of the miner must consequently be recognized as prevailing in some degree all subsequent tables. It is a question whether the taking of the credits on the coal-books as a measure of the working time of the miner leads to an error of excess or deficiency; but the presumption is that the whole number of days' work actually expended on a given amount of product is somewhat more than the sum of the days with which the miner is credited.

The running time of the mine doubtless represents the working time of the greater portion of the men, but there are certain men about every place who work both more days and fewer days than the weighing record shows. This difficulty as to the exact time of labor is confined, however, to coal miners; other employés in and about mines are paid by the day or month, and the time record as to them is complete. The same is true of all the employés in mines where mining machines are used, who are likewise either employed by the day or required to work in coöperation with those who are so employed.

Some reference should also be made in this connection to the interpretation which must be given to the monthly earnings of miners and others as they appear in the tables following. The monthly earnings are not necessarily the amounts earned by a full month's labor, they are the amounts with which each man is credited on the pay-roll for a given calendar month. A man may appear on three successive pay-rolls, but he also may have begun work in the latter part of the first month and quit in the early part of the third month, so that while credited with certain work and wages for each of three months he may have really performed only two months, more or less, of actual

labor. This fact will have the effect of producing apparently small monthly earnings in the cases of many who work only a few months, and will affect, though in a diminishing degree, the monthly averages of all who work less than the full twelve months of the year. In order, however, to indicate the degree to which fractional months enter into the reported monthly earnings, the whole number of working days in the period considered is given in an adjacent column of the table, as well as the possible working days, and the actual running time of the mine, within the same period.

A common perplexity in analyzing the pay-rolls of coal companies arises from the fact that sometimes the labor and earnings of a father and son, or of a father and sons, or of two or more men, is represented in a single account with only one of the actual workers. When such partnership accounts are discovered either from the nature of the entry or by inquiry or inference, there is no alternative but to make an arbitrary separation of the product and earnings on some proper basis. The rule of practice has been, in the case of father and son, to give the father two-thirds of the total tons and wages, and drop the record of the son, who may be a boy or a man, but is probably less than the latter; in the case of a father and sons, to give the father one-half the account and the sons, counted as one man, the other; in the case of two or more men working on one "number," or account, to divide the various amounts equally between them and make a slip for each. In one mine it was found that the custom had prevailed of keeping one account with every two men, or with the "room" in which they worked, and that a change had not been made until the second month of the year under investigation. This involved a correction of the slips made for the first month, which doubled the number of men employed and divided their apparent earnings. It is believed that the caution exercised in this matter has substantially eliminated this form of error from the statements of individual earnings.

In searching the record of so great a number of men, so distributed as to time and place, it was inevitable that many should be found, principally day laborers, who worked only a few days. The experience of such men could contribute nothing of value to the objects in view, and the introduction of several



hundred accounts of this kind would not only encumber the tables, but distort all conclusions as to monthly and yearly earnings. Cases of this kind have, consequently, been excluded from the details of tabulation, but in order that due recognition may be given them, they have been grouped by themselves and the gross earnings of this class, together with that of sons whose earnings have been separated from those of their fathers, will appear in foot-notes to the Summary tables.

As an indication of the diversity of condition under which the earnings here presented have been acquired, it may be said that of the eleven mines whose experience has been secured, six are worked by the pillar-and-room system, and five by the long-wall system; in eight the coal is undermined with hand-picks, in two, by machines; in one, it is not undermined at all, but blasted without mining; in six, the workings are dry; in five, they are wet, in two very wet; in two the coal is only three feet thick; in three, it is three and a half feet thick; in four, five and a half feet thick; and in two, from seven to nine feet thick; in four of these mines the miner has to use and pay for greater or less quantities of blasting powder, in one, the quantity is much greater than in any other; in two others, powder is used but the companies pay for it; in five, powder is not used at all in the mining process; the rate of wages varies from fifty to ninety-five cents a ton; in eight of these mines a general strike broke out at the close of the period considered, but in three there was no strike. Yet each of these mines is representative of other mines and groups of other mines, not here represented, so that the lesson of these tables is capable of an application much wider than the investigation itself.

The principal hindrance to the establishment of any scale of wages which shall operate uniformly and equitably over any extended area, arises from the difficulty of fixing the relative value of all these differentials of condition. The local rate of wages is governed by local conditions and is the resultant of many reciprocal demands and concessions between proprietors and men, but the effort to establish any equivalence between different local rates meets with but small success. Private and corporate interests are sensitive on this subject, and even the associated miners who give more consideration to it, disagree

as to a proper adjustment. For this reason, as well as to perfect the statistical statement, the details of physical condition as well as of the rates of wages are given in connection with every table of actual earnings. In this way the facts are brought into juxtaposition, and an opportunity is given to compare the results of different rates of wages and the conditions that go with them, as they appear in the average earnings of the men who work under them.

It is due to the proprietors, whose books have been submitted to the bureau for this investigation, to acknowledge the readiness with which they have uniformly contributed to the inquiry, and the many facilities they have afforded the agents of the bureau in the prosecution of their work. The bureau is also indebted to many coal miners for details of information necessary to a complete understanding of the peculiarities of their employment.

The names of the proprietors do not appear in this report, as it is not the purpose of the inquiry to direct attention to individuals or companies, but rather to conditions of employment and the rewards of labor under those conditions. In order, however, to identify those conditions, and permit a consideration of the influence of transportation and market facilities upon them, the name of the county in which each mine is located is given. These counties are Bureau, La Salle, Will, Sangamon, Macoupin and Madison.

#### ANALYSIS OF THE TABLES.

The results of this investigation are presented in a series of tables designed both to amplify the details of individual experience, so far as that is feasible, within the limits of this report, and also to condense such salient facts as admit of it, to averages and totals which shall be true of miners as a class. The same set of facts has been obtained and compiled for the other employés of each mine, and they are presented in corresponding groups of tables. The first of the tables in each case is made up of summaries of the twelve pay-rolls of the year showing in totals the disbursements for each month, and the year, the product, the number of men employed and the number of days of apparent and actual employment. The next table presents in detail the individual earnings and working-time of every man

who found employment in and about the mine during the year; this table is subsequently reduced to a recapitulation of each class of workers by their several occupations, with summaries of the results of their labor in product and wages. To complete the delineation average monthly earnings are classified by amounts. All these tables are two-fold in character corresponding with the two classes of employés about every mine; namely: the coal miners proper, and those performing miscellaneous other labor connected with mining operations. This separation is important not only because of the difference in their occupations, but for the reason that miners are paid by the ton and other employés by the day or month.

#### SUMMARY TABLES.

The table of summaries referred to presents at a glance the total product of each establishment for each month and the year, the number of men whose labor contributed to it, the time of that labor both actual and relative to full time, and the amount of money actually disbursed in wages; in brief, it is an epitome of the labor and wages of all the men employed, in monthly totals, as distinguished from the subsequent elaboration of the same facts in individual totals for the year.

The following table illustrates the manner in which the pay-rolls of each mine have been analyzed and summarized in the first instance:

## Summaries of Results Shown by Monthly Pay-Rolls.

## ESTABLISHMENT IX.—Coal Mine in Sangamon County.

CONDITIONS:—Depth of shaft, 240 feet; thickness of coal,  $5\frac{1}{2}$  feet; working places, dry; system of working, pillar-and-room; coal blasted from the solid wall without mining; irregularities of the seam known as "horse-backs" frequent; prices paid to miners  $5\frac{1}{2}$  cents a ton from May to October, 62 $\frac{1}{2}$  cents from October to April and 55 cents for April; check-weighman at the scale; screen bars  $\frac{1}{4}$  of an inch apart.

## COAL MINERS, PAID BY THE TON.

MONTHS. 1888. 1889.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	Whole number of men on the pay-roll during the month.	Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.	Average net earnings per man per month.	Average net earnings per man per day.	Average number of tons mined per man per day.	Average number of days' work performed per man.	Number of men required to produce same tonnage if at work full running time.
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.
May .....	26	19	97	1,606	4,720	\$2,975 40	\$30 66	\$1 85	2.93	16.6	85
June .....	26	16	94	1,350	3,694	2,362 70	25 14	1 75	2.74	14.4	84
July .....	25	20	94	1,733	4,352	2,825 40	30 00	1 63	2.51	18.4	87
August .....	27	26	101	2,288	7,245	4,734 35	46 87	2 08	3.17	22.7	88
September .....	25	24	100	1,912	6,310	3,890 25	38 90	2 03	3.30	19.1	80
October .....	27	27	102	2,397	6,732	4,665 85	45 74	1 95	2.81	23.5	89
November .....	25	25	116	2,386	8,157	5,583 30	48 13	2 34	3.42	20.6	95
December .....	25	25	119	2,446	7,736	5,574 75	46 85	2 33	3.16	20.5	98
January .....	26	18	107	1,775	5,508	3,877 35	36 24	2 18	3.10	16.6	99
February .....	23	18	107	1,731	5,113	3,593 40	33 58	2 08	2.95	16.2	96
March .....	25	13	97	1,154	3,625	2,760 25	28 46	2 39	3.14	11.9	89
April .....	26	10	85	798	2,597	1,759 95	20 71	2 21	3.25	9.4	80
The year .....	306	241	210	21,576	65,789	\$44,600 95	\$36 59	\$2 07	3.05	17.7	90
Monthly Avs...	25.5	20.1	102	1,798	5,482	3,716 75	36 59	2 07	53.97	17.7	90

## OTHER EMPLOYEES, PAID BY THE DAY OR MONTH.

May .....	26	19	32	758 $\frac{1}{2}$	.....	\$1,379 80	\$43 12	\$1 82	.....	23.7	.....
June .....	26	16	31	695	.....	1,283 30	41 40	1 85	.....	22.4	.....
July .....	25	20	30	679 $\frac{3}{4}$	.....	1,274 30	42 48	1 87	.....	22.7	.....
August .....	27	26	32	828 $\frac{1}{2}$	.....	1,505 65	47 05	1 82	.....	25.9	.....
September .....	25	24	33	822 $\frac{1}{2}$	.....	1,498 55	45 41	1 82	.....	24.9	.....
October .....	27	27	32	832 $\frac{1}{2}$	.....	1,495 35	46 73	1 80	.....	26.	.....
November .....	25	25	32	801 $\frac{1}{2}$	.....	1,443 75	45 12	1 80	.....	25.1	.....
December .....	25	25	31	771 $\frac{1}{4}$	.....	1,394 65	44 99	1 81	.....	24.9	.....
January .....	26	18	32	723	.....	1,323 40	41 36	1 83	.....	22.6	.....
February .....	23	18	35	726	.....	1,360 00	38 87	1 87	.....	20.7	.....
March .....	25	13	33	653 $\frac{1}{2}$	.....	1,227 00	37 18	1 88	.....	19.8	.....
April .....	26	10	33	571 $\frac{1}{4}$	.....	1,094 60	33 17	1 91	.....	17.3	.....
The year .....	306	241	49	8,863 $\frac{3}{4}$	.....	\$16,280 95	\$42 18	\$1 84	53.97	22.96	.....
Monthly Avs...	25.5	20.1	32	739	.....	1,356 75	42 18	1 84	.....	22.96	.....
Totals .....	306	241	259	30,440	65,789	\$60,381 90	.....	.....	53 97	.....	.....
General Avs...	25.5	20.1	134	2,537	5,482	5,073 49	\$37.93	\$2 00	.....	19.	.....

The first column in this table shows the number of working days in each month, that is, the whole number of days less Sundays and holidays; the sum of these is 306 days for the year, which is termed the possible working time and as such forms the basis to which subsequent estimates of time are referred. In comparison with these days is given the number of days of active operations of the mine during each month, that is, the days when the whole force is supposed to be engaged in mining, hoisting and delivering coal; these days constitute what is known as the running time of the mine.

Following this is the column showing the number of men who appeared on the pay-roll each month. The figures in this column illustrate one of the chief difficulties presented in statistics of this kind. The smallest number of men employed in this mine in any given month was 85 in April; the largest number 119 in December; between these extremes there is more, or less fluctuation from month to month and the average for all months is 102. It does not follow, however, that the greatest number employed in any one month is, in fact, the whole number of men who found employment during the year. On the contrary there were 210 different men at work at this place during the year and only 45 of them worked continually throughout the year; the remaining 165 worked for various periods less than a year. Of the 97 miners who were paid for labor in May, some never appeared on any subsequent pay-roll, others continued to appear for several months and then were found no more; while others, still, disappeared for several months, and then began work again. In like manner names were found on every pay-roll which had not appeared on any previous one, and what was true in this case was found to be characteristic of all coal mines. In some cases, as will hereafter appear, the permanent and presumably resident workers were a greater and in some a smaller proportion of the whole, but everywhere the migratory habits of the coal miner are made apparent by the constantly changing list of names on the company's books. In order to bring to light the degree of permanency of abode among miners, a subsequent table shows all employés grouped by the number of months they were employed, or rather the number of times they received pay during the year.

In this table no identity of individuals is sought or preserved, as the presentation is simply one of totals for each month. It is, consequently, enough to show the number of units of labor which enter into the month's product. The number of men given in the third column combined to perform the number of days' work, during the month, which appears in the next column. These days of work are the sum of all the days during which each man is credited with labor during the month; they are not the product of the number of running days of the mine and the number of men on the roll. Every man's working days are determined from the record, and the sum of these goes to make the total in the column showing the whole number of days of labor expended on the total product for the month; this appears in the column following. The tons in this column and throughout this report are tons of 2,000 pounds and are those mined and delivered during the month and represent the result of the month's labor, or rather of the total number of days' labor performed by the given number of men during the month. This may be, and often is, much less than a month's labor for each of them.

The net earnings of the men as shown in this table is the sum of money remaining to the credit of all of them after deductions are made for such powder, oil or smithing as may have been furnished to the men by the company. It is the amount of money, in other words, required to discharge the pay-roll when miners are paid in cash and in full. It is, consequently, not the sum which would result from a multiplication of the number of tons by the rate per ton paid for mining. The difference between this amount, or the gross earnings, and the net earnings of the miner are shown in the table of individual time and earnings.

Following the totals of time, labor and product in this table are several columns of averages deduced from them which indicate the individual opportunity, efficiency and reward of the men employed. From these it appears that during the month of May, at this mine, 97 miners were able to get an average of 16.5 days' work each; that they mined a fraction less than three tons of coal a day while at work, for which they received an average of \$1.85 a day, or \$30.66 cash for their month's work. It will be further observed that all these

figures vary for each succeeding month, the highest number of working days in any month being 23.5 the largest daily product per capita being 3.42 tons, and the highest earnings being \$2.39 per day and \$18.13 per month. On the other hand the shortest month's work was 9.4 days, the lowest average output, 2.51 tons, and the smallest earnings, \$1.63 a day and \$20.71 a month. Condensing all these totals and averages to a single generalization for the year, the deduction is that an average of 102 men obtained an average of 17.7 days' work each per month, in which each mined 53.97 tons of coal and for which each received \$36.59 per month for 12 months, or \$439.08 a year.

At this mine during the same year there were 49 other men employed in sundry collateral occupations of various degrees of importance and at corresponding rates of wages, who averaged 22.96 days' work per month, for which they received an average of \$1.84 a day or \$42.18 a month, or \$506.16 a year. These averages for other employés are, however, of little significance or value save for the purpose of comparing one mine with another, because they include all occupations from the trapper-boy who earns 75 cents a day, to the pit-boss who earns \$100 a month. The averages for miners, however, are more legitimate as representing various grades of men in the same occupation who are paid a common rate of wages. The grouping of other employés by the month, the same as miners, gives, however, a uniformity of treatment to both sides of the pay-roll and shows for each month and the year the actual expenditure for a given amount of product and the relative time and earnings of both classes of employés.

In the final column of this table is given the number of men who might have produced an equal number of tons of coal in the same months if they had worked continuously all the days the mine was in actual operation. It will be observed that in no month did all the men work every day the mine was running. The difference, in this case, between the miner's opportunity to work and his improvement of that opportunity is expressed by the difference between 20.1 days and 17.7 days, or 2.4 days per man per month. The opportunity for work was, however, 5.4 days less than full time, that is, while the miners averaged 2.4 days

less work than the running time of the mine, during which, so far as the opportunity was concerned, they might have been at work, they also lost 5.4 days work per month through the idleness of the mine, or 7.8 days in all, each month. The product of this mine for the year was, therefore, the result of 30 per cent. less than full-time labor.

It will be observed, in this case, and in general, that other employes average not only more working days than miners, but often more than the running time of the mine. This arises, partly, from the fact that they are employed by the day and consequently have not the piece-worker's option to work or not, and partly from the fact that the duties of many of them continue when the mine is not in operation; while the labor of miners, for the most part, ceases when the hoisting is suspended. While the average daily earnings of other employes, as extended at the foot of the column for that purpose, cannot be accepted as affording any clue to the actual earnings of individuals in this class, the figures are suggestive when compared with the corresponding earnings of miners. The latter are highly variable and the resultant average for the class is materially higher than that for the day men, yet as a result of a greater number of days' work each month the average of monthly earnings is somewhat more for other employes than for miners. Subsequent tables will show the earnings of other employes, individually, and grouped by occupations.

Finally the totals of this table and all corresponding tables, indicate not only the relative earnings of miners and others about mines, but also the amount of money which is annually expended by coal companies for other labor than that of the miners proper. This is an amount which varies widely in fact, at different places, and about which estimates vary still more widely, but upon which frequently depends not only the rate of the miner's wages, but the fate of the enterprise as a business venture.

In this case the pay-rolls for the year show the expenditure of a sum equivalent to 25.3 cents a ton for the hire of labor other than that of miners, and the employes in this group do not include those engaged in clerical service and general superintendence.



## CONDENSED RESULTS.

The foregoing is a review of the facts gathered and tabulated from the books of one establishment, and illustrates the manner in which the results obtained from all the mines are presented in subsequent tables. These tables are, however, detached from each other, being grouped with other tables relating to the same mines. In order to bring together corresponding facts from these separate tables for comparison, and to draw from them whatever conclusions they may afford concerning the industry at large, a series of condensed tables are here presented in which are grouped all the results reached by the investigation on given lines.

The first of them refers to the running time of the several mines and shows the number of days of active operations of each in every month, and for the year, contrasted with full time and possible time, as follows:

MONTHS.	ACTUAL RUNNING TIME (IN DAYS) OF ELEVEN MINES DURING TWELVE MONTHS.											
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	Aver- ages.
May.....	27	27	23	10¼	20	11	19	20	19	26	16½	19.9
June.....	25	26	20	.....	22	18	12	17	16	24	15	19.5
July.....	24	24	24	12½	21	20	5	23	20	23	15½	19.5
August.....	26	26	26	23	23½	15	25	23	26	15	24	22.9
September.....	13	21	7	22¾	17½	19	24	24	24	21	23	19.9
October.....	27	27	3	27	20	26	24	27	27	27	24½	23.6
November.....	23	23	22	22	22	17	23	22	25	24	18¾	21.9
December.....	22	16	16	16¼	21½	14	23	21	25	11	16	18.3
January.....	15	.....	15	17¾	.....	14	17	18	18	13	16¾	16
February.....	22	.....	21	14½	.....	13	17	18	18	12	18	17
March.....	18	.....	18	11½	.....	9	16	.....	13	16	15¼	14.6
April.....	20	.....	20	15¼	.....	11	19	.....	10	16	12	15.4
Running time..	262	193	215	192¾	170½	187	224	213	241	228	214¾	213
Full time.....	306	206	306	280	206	306	306	255	306	306	306	281
Possible time..	306	306	306	306	306	306	306	306	306	306	306	306

The Roman numerals at the head of each column in this table indicate the mine or establishment from which the facts are gathered, and correspond with the establishment numbers given to the several mines in subsequent tables. This preserves

the identity of the mines throughout the report and enables the reader to recognize or refer to them wherever they may be.

The object of this summary is to group all the facts in regard to running time in such a way as to show not only the experience, in this respect, of each mine for each month, but of all of them for all months.

Seven of these mines were in operation twelve months during the year; one of them eleven months; one ten months, and two only eight months. In other words, all of them together were running 121 months instead of 132 months, or full time; and the average running days in the year was 213 for each, instead of 306. In this respect the group is characteristic of the industry, in which for the last five years the average running time of all commercial mines has been 215.2 days a year.

The most constant and uniform work shown in this group was maintained by Establishment I., which was in operation 262 days out of 306, or 86 per cent. of full time, with a monthly average of 21.8 days out of a possible 25.5. Probably very few mines in the State accomplish as much as this in any twelve consecutive months.

The remaining mines in the group show totals of running time varying from 170½ to 241 days during the year, with an average of 207.9. Establishment II., although in operation only eight months, having been closed January 1 for want of business, shows a high average of working days while in action, having made an average of 24.1 days a month, or 94 per cent. of full time.

In the following column, however, and in the seventh, are some illustrations of another kind. In these there are three months in which the running time was only seven, three, and five days, respectively; that is to say, at the first of these mines there was only 10 days' work possible to the miner during the two months September and October, which are usually months of special activity in mining operations. These lapses of opportunity, and periods of enforced idleness, constitute one of the two great disadvantages under which miners labor. The other arises from the number of men, in excess of the ordinary demand for labor, who congregate and try to subsist about mines. This surplus of labor will be shown in a succeeding table.

The averages in the final column of this table show the monthly running time of all mines for the year under consideration. Contrary to the usual expectation and experience, the steadiest employment was given during the summer and autumn months. From January to May the work was lightest. This was largely the result of a very mild winter, and the consequent prostration of trade prepared the way for the attempted reduction of wages and the prolonged strike which began at the close of this year.

The whole number of days of active operation for the eleven mines during this year was 2,341; the average for each mine was 213, and for each month 17.7 days. These figures represent 70 per cent. of possible time. The monthly average for the months actually in operation is, however, 19.5 days, or 76 per cent. of full time during the active months.

Following this group of results in regard to days of active operation at the several mines, or the limit of opportunity presented to miners, it is proper to show the number of days of actual labor the working force accomplished, or the degree to which they improved their opportunities. This is shown in the following table:

MONTHS.	AVERAGE NUMBER OF DAYS' WORK DONE PER MAN PER MONTH.											Averages.
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	
May .....	16.2	15.9	15.9	9.9	19.8	9.1	17.2	17.8	16.6	25.3	15.3	16.3
June .....	12.1	15.3	14.2	.....	20.7	13.5	11.3	15.4	14.4	23.4	14.6	15.5
July .....	17.6	18.2	16.1	6.1	20.1	14.1	4.3	17.	18.4	22.3	17.	15.6
August .....	18.9	20.8	13.7	14.2	20.	11.6	21.9	20.2	22.7	13.3	21.8	18.6
September .....	7.8	18.5	5.6	18.3	14.7	16.5	21.2	21.3	19.1	19.9	21.5	16.8
October .....	20.4	21.4	2.	19.7	15.9	17.	21.5	23.7	23.5	25.9	20.1	19.2
November .....	18.5	18.1	16.9	17.	18.4	13.8	20.7	20.4	20.6	23.1	16.5	18.6
December .....	16.3	10.2	13.1	14.	17.7	11.5	20.8	19.1	20.5	10.9	14.7	15.3
January .....	9.6	.....	10.8	14.9	.....	11.6	15.6	16.7	16.6	12.8	14.6	13.7
February .....	15.7	.....	14.7	12.1	.....	11.6	15.7	16.7	16.2	11.1	15.8	14.4
March .....	13.3	.....	13.8	10.	.....	8.4	13.8	.....	11.9	13.	14.2	12.3
April .....	16.	.....	16.1	13.1	.....	9.6	17.8	.....	9.4	15.6	11.7	13.7
Working time..	15.08	17.58	13.66	13.64	18.05	12.47	17.	18.94	17.7	18.	16.4	15.9
Running time..	21.8	24.1	17.9	17.6	21.5	15.6	18.7	21.	20.1	19.	17.9	19.5
Possible time..	25.5	25.7	25.5	25.5	25.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5

The averages presented in this table are obtained by adding all the days of labor done by all the men at a given mine during a given month and dividing the sum by the whole number of men engaged in that labor. In the month of May, for instance, in Establishment I., the entire force worked an average of 16.2 days. In this month there were 340 men on the payroll and the mine was running 27 days; some of these men worked every one of the 27 days, while many others, for various reasons, worked materially less, thus reducing the average of all to 16.2 days, during which, if the whole force had worked uniformly, the output of the month might have been produced. Continuing these averages for the year, it is found that the entire force at this mine accomplished, on an average, only 15.08 days' work each month, while the mine was in operation, on an average, 21.8 days each month, and might have been run 25.5 days. Similar computations being made for each mine, the general result deduced for the industry appears in the final column and affords the desired supplement to the conclusions reached in the preceding table. It was there shown that the mines were active 70 per cent. of possible time and 76 per cent. of full time during the months in which they were running. It here appears that while the mines averaged only 19.5 hoisting days out of a possible 25.5 days per month, the employes averaged only 15.9 days' labor out of a possible 19.5 days; in brief, that, as a class, they find it possible to work only 62 per cent., or less than two-thirds, of full time. The details of fluctuations as to working time and running time in different months at different places may be observed by an examination of the table.

The next consideration, in economic interest, after that of the period of employment, is the number of men to whom such employment is given. The statistics of the several companies in this regard are grouped in the following table:

MONTHS.	NUMBER OF MINERS ON THE RESPECTIVE PAY-ROLLS EACH MONTH AND DURING THE YEAR.											
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	Totals.
May.....	340	337	195	276	150	332	484	265	97	123	88	2,687
June.....	329	371	216	.....	149	362	478	285	94	130	83	2,497
July.....	320	371	251	275	153	369	436	287	94	134	89	2,779
August.....	371	395	291	281	155	356	502	238	101	118	98	2,966
September.....	339	455	280	284	142	384	512	312	100	133	93	3,034
October.....	347	483	142	321	144	397	542	325	102	141	130	3,074
November.....	347	459	290	343	161	387	549	320	116	147	134	3,253
December.....	362	351	312	347	186	386	550	331	119	147	132	3,223
January.....	460	.....	347	348	.....	386	540	309	107	140	134	2,771
February.....	466	.....	412	352	.....	390	535	264	107	134	128	2,788
March.....	465	.....	405	358	.....	378	648	.....	97	138	114	2,603
April.....	435	.....	401	358	.....	355	623	.....	85	124	103	2,484
Averages.....	382	403	295	322	155	374	533	300	102	134	111	3,111
During the year	685	575	658	453	417	589	940	457	210	205	167	5,356

In each of the columns of this table is found the number of men who appeared on the pay-rolls of the several companies each month. In Establishment I, 320 miners received pay in July and 466 in February, while for all other months, the number fluctuates between these two extremes. The average number for the twelve months was 382 for each; that is to say, this number of men, if continually at work, could have performed all the labor which was required during the year at this mine. In fact 84 more men worked in the busiest month, and 62 less men in the mid-summer months. But the greatest number of men employed in any month was far less than the whole number of persons who were given employment during the year. In fact the names of 685 different men were found on the pay-rolls of this company during the year, and, although an average of 382 were at work each month, only 160 of them worked every month in the year. It thus appears that 56 per cent. of the whole number of men who worked in this mine, first and last, during the year, was sufficient to perform all the labor done, and that only 23 per cent. of the whole were constant workers throughout the year.

In like manner subsequent columns in this table show for each of the mines the number of men who were actually employed each month, the monthly average for the year, and the whole number of workmen who came and went during the year. The averages range from 102 to 382 men, as the number actually required for the given product; and the different miners, present and working during the year, range in number from 205 to 940. These results summarized show that while the labor of 3,111 men, or the total of the various averages, was sufficient to mine and deliver the annual output of these mines, there were, in fact, 5,356 individuals who shared that labor for greater or less periods.

The following table shows the number of men in each and all mines grouped according to the number of months they worked at the places specified, and affords a striking illustration, both of the surplus labor about coal mines, and of the constant change in the *personnel* of the working force:

NUMBER OF MONTHS ON THE PAY-ROLL.	NUMBER OF MEN IN EACH MINE WHO WORKED TWELVE MONTHS OR LESS.												
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	Totals.	Per cent.
12 .....	160	.....	56	.....	.....	207	265	.....	41	83	57	869	16.2
11 .....	37	.....	49	187	.....	28	50	.....	7	14	7	379	7.1
10 .....	18	.....	22	43	.....	18	25	131	4	5	7	273	5.1
9 .....	52	.....	39	18	.....	15	50	59	5	6	10	264	4.7
8 .....	21	202	29	22	23	29	33	28	14	7	7	415	7.8
7 .....	28	90	32	33	7	39	49	28	9	10	16	341	6.4
6 .....	38	33	40	26	9	44	49	24	10	13	11	297	5.5
5 .....	29	38	41	11	57	39	48	49	19	7	16	354	6.7
4 .....	112	75	49	26	30	48	47	22	21	6	13	449	8.4
3 .....	92	58	143	29	84	30	77	47	20	11	3	594	11.
2 .....	47	35	75	27	89	37	170	48	31	16	10	585	10.9
1 .....	51	44	83	31	118	55	77	21	29	27	10	546	10.2
Total on pay-roll.	685	575	658	453	417	539	940	457	210	205	167	5,366	100.00

An examination of the column of totals in this table shows that only 869 men out of the whole number, 5,356, worked continuously for twelve consecutive months. It should be noted,

however, that an additional number worked every month in which their respective mines were in operation. Assuming that these would have continued to work if the opportunity had been given them, it is necessary to add to the twelve-months men those who worked eight months in mines II and V, eleven months in IV and ten months in VIII, or 543 in all, making the total of constant workers 1,412, or 23+ per cent. of the whole. Those who worked six months or more were 2,828, or 53 per cent. of the whole.

These figures, however, present the facts on this subject as though they were detached from the experience of other years. As a matter of fact, those who appear as having worked only two or three months in this particular year may have had previous employment for any number of months; and those who came into the service during the later months may continue on the several pay-rolls indefinitely beyond the present year. Yet the fact remains that only 869 men out of 5,356 actually maintained their places on the pay-rolls throughout this particular year, and the inference is justifiable, inasmuch as this was a fairly representative year, that a corresponding degree of fluctuations would be found in any given period of twelve months in any corresponding number of mines equally distributed throughout the State.

Having thus summarized the results relating to the number of employés and time of employment, the next consideration in order is the amount of product. From the details wrought out for each mine the following table is consequently formed, showing the average efficiency of miners under diverse conditions:

*Average number of tons, of 2,000 pounds, mined per man per day and per month.*

Mines.....	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
System.....	L.-W	L.-W	L.-W	P.-R.	P.-R.	P.-R.	L.-W	L.-W	P.-R.	P.-R.	P.-R.
Coal.....	3½ ft.	3½ ft.	3½ ft.	5½ ft.	5½ ft.	5½ ft.	3 ft.	3 ft.	5½ ft.	8 ft.	7 ft.
Price.....	90 cts	90 cts	90 cts	80 cts	M'ch	80 cts	95 cts	95 cts	*55-62½c.	50 cts	M'ch
May .....	2.44	2.58	2.83	3.47	2.40	3.74	2.04	2.13	2.94	5.06	4.76
June.....	2.50	2.77	2.53	.....	2.47	3.75	2.10	2.41	2.74	4.69	4.69
July.....	2.75	2.85	2.38	3.65	2.30	3.51	1.23	2.08	2.51	4.	4.69
August.....	2.66	2.80	2.54	3.85	2.25	3.33	1.72	2.28	3.17	2.05	4.88
September.....	2.39	2.70	2.55	3.93	2.40	3.25	1.82	2.20	3.30	3.60	4.89
October.....	2.57	2.75	1.52	4.14	2.79	3.31	1.83	2.29	2.81	3.60	4.84
November.....	2.72	2.82	2.25	4.	2.40	3.18	1.61	2.01	3.42	3.26	4.57
December.....	2.60	2.71	2.17	3.67	2.73	3.11	1.55	1.98	3.16	3.57	4.74
January.....	2.41	.....	2.42	4.	.....	3.27	1.67	2.07	3.10	4.10	4.70
February .....	2.43	.....	2.07	4.36	.....	3.13	1.86	2.47	2.95	4.46	4.95
March .....	2.35	.....	2.42	4.28	.....	3.23	1.62	.....	3.14	3.17	4.93
April .....	2.47	.....	2.35	4.14	.....	3.50	1.77	.....	3.25	3.95	5.02
Averages .....	2.53	2.76	2.37	3.98	2.42	3.35	1.75	2.18	3.05	3.86	4.80
Monthly averages.....	38.21	48.48	32.39	54.34	45.10	41.74	29.74	41.37	53.97	69.55	78.93

\* Coal blasted without mining.

This table presents a group of averages showing the daily and monthly results of labor in tons of coal mined and delivered by the average miner working under various systems and in seams of coal varying in character and thickness.

In order to afford an intelligent interpretation of the figures in this table, several details of circumstance are given at the head of each column. By these it will appear what system of working prevails at each mine, what thickness of coal is mined, how the mining is done, and what is paid for doing it. In general it is expected that the per capita product will correspond very closely with the thickness of the seam, but there are other circumstances which materially modify this rule, as will be seen by reference to the table.

In the first three mines the coal is of a uniform thickness of three and a half feet, and all conditions are similar; yet the output ranges from 2.37 to 2.76 tons a day per man, as a result of a year's work. It will be observed, however, that differences



greater than these appear from month to month in the same mine, showing that variableness in this respect is an inherent feature of the occupation and not always traceable to outward conditions. All things considered, however, these figures seem to justify the conclusion that an average of two and a half tons per man per day is a legitimate expectation from any large body of miners in this field.

In the next three mines conditions are quite as uniform as in the preceding group, but the coal is five and a half feet thick and the system of mining entirely different. Moreover, in mine V, machines are used, while in the other two mining is done with hand-picks. The comparison here is consequently confined to IV and VI, in which there is no perceptible outward difference. Yet the range of individual efficiency here is from 3.35 to 3.98 tons per man. Possibly a fair deduction from the experience of these mines would be that an average force of miners in this coal should turn out at least three and a half tons each per day.

In this field, however, and in this seam, it appears that the output per man is materially less from the machine mine than from the mines where the old methods prevail. The men in machine mines who are counted as corresponding with the coal miners in other mines are those only who perform corresponding functions, and include the cutters, or machine operators, the blasters, timbermen, helpers and loaders, that is, those only whose labor contributes to the delivery of the coal on pit-cars and the keeping of the working places in a safe condition. It does not follow, however, that because the per capita product is less in the machine mine that the process is not profitable, for the reason that the per capita earnings of the machine men are also materially less than those of coal miners proper. This will be shown in the following table of relative daily earnings. On the other hand the men and machines in the other machine mine, XI, turn out a considerably greater per capita product than the men alone in any of the other mines. The coal at this place is, however, very thick, and all conditions are favorable to the successful operation of machines. The only place at which the output at all compares with this, is the mine shown in column IV, in which for six months of the year the miners averaged four tons or more per man per day, though under-cutting the coal by hand in a five and a half foot seam.

The lowest coal in this list of mines is three feet in thickness, and the possibilities of labor in it are shown in columns VII and VIII. From these it appears that the conditions are somewhat more favorable in one than in the other, the average capacity of miners being 2.18 and 1.75 tons per day, respectively. Two tons a day would probably be considered a good average for men in these mines. The ordinary difficulties of mining are increased in these instances by the fact that the working places are so wet that it is necessary to keep powerful pumps in operation day and night in order that the men may be able to get into the mines at all. These disadvantages are recognized in the rate of wages, which is higher here than anywhere else.

In the next column, IX, is given the tonnage of miners working in another five and a half foot seam, but under exceptional conditions. The coal in this place is not undermined at all, but is thrown out of position by explosives and then broken up and loaded on pit-cars. This process avoids the severe labor of undermining but involves the use of greater quantities of powder, and consequently greater expense to the miner than the more common method. Yet the capacity of men to deliver coal does not seem to be enhanced by this process, as their average output falls somewhat below that of men mining in other seams of the same thickness. The price paid for coal at this mine has fluctuated from 55 to 62½ cents a ton during the year.

The highest coal and the lowest prices are found in column X; also the greatest diversity from month to month in daily output. An average of 5.06 tons is reached in May, but in August this drops to 2.05 tons, and for the year rests at 3.86. The highest of these figures indicates the possibilities of labor in very thick coal under favorable circumstances; the lower averages for certain months, and the year, suggest disadvantages which do not appear upon the record.

The monthly averages of coal produced by the men at the several mines, as shown in the bottom line, do not present a constant ratio with the daily product for the reason that the number of days' work in the several months continually varies.

The average daily earnings of coal miners is shown in the following table:

*Average earnings of all miners per man per day in eleven mines.*

Mines.	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	Aver- ages.
System.	L.-W	L.-W	L.-W	P.-R.	P.-R.	P.-R.	L.-W	L.-W	P.-R.	P.-R.	P.-R.	
Coal.	3½ ft.	3½ ft.	3½ ft.	5½ ft.	5½ ft.	5½ ft.	3 ft.	3 ft.	5½ ft.	8 ft.	7 ft.	
Price.	90 cts	90 cts	90 cts	80 cts	M'ch.	80 cts	95 cts	95 cts	55- 62½c.	50 cts	M'ch.	
May.....	\$2 32	\$2 42	\$2 55	\$3 29	\$1 84	\$3 07	\$1 95	\$2 05	\$1 85	\$2 40	\$1 80	\$2 32
June.....	2 37	2 55	2 30	.....	1 98	3 01	2 02	2 31	1 75	2 21	1 82	2 23
July.....	2 51	2 59	2 17	3 13	1 90	2 86	1 13	2 00	1 63	1 89	1 81	2 15
August.....	2 38	2 52	2 28	3 14	1 91	2 77	1 65	2 20	2 08	97	1 82	2 16
September.....	2 31	2 43	2 37	3 17	1 91	2 62	1 77	2 11	2 03	1 71	1 83	2 20
October.....	2 35	2 48	1 41	3 22	1 89	2 56	1 76	2 23	1 95	1 71	1 86	2 13
November.....	2 45	2 52	2 00	3 13	1 89	2 58	1 56	1 93	2 34	1 55	1 85	2 18
December.....	2 33	2 42	1 95	2 96	1 94	2 59	1 49	1 89	2 38	1 67	1 84	2 13
January.....	2 10	.....	2 14	3 10	.....	2 67	1 60	1 98	2 18	1 95	1 84	2 17
February.....	2 17	.....	1 86	3 44	.....	2 58	1 79	2 36	2 08	2 10	1 84	2 25
March.....	2 09	.....	2 14	3 47	.....	2 70	1 55	.....	2 39	1 52	1 82	2 21
April.....	2 17	.....	2 11	3 40	.....	2 83	1 69	.....	2 21	1 86	1 83	2 26
Yearly aver'ges	\$2 30	\$2 50	\$2 13	\$3 21	\$2 01	\$2 72	\$1 68	\$2 10	\$2 07	\$1 83	\$1 83	\$2 23

In presenting this table, reference should again be made to the fact that some difficulty has been encountered in determining, from the books, the exact number of days the miner works. The days accepted and considered as working days, in preparing these tables, are those on which the miner is credited with coal on the company's books. The judgment has already been expressed that this number of days is probably somewhat less than the actual days of labor performed; it is impossible, however, to know just what variation, if any, there may be between the recorded and real working days of the coal miner, but its effect can hardly be appreciable, either way, in computing averages for a large number of men.

In the original and detailed tables which follow, and from which this series of topical tables is compiled, the earnings are presented in immediate connection with the working time and product. Reference should consequently be made to the general tables in looking for the influence of these qualifying facts. Daily earnings are grouped here by themselves merely for purposes of comparison.

The columns in this table present the average amounts received daily by each of the entire working force at each mine for each month and the year. It will be seen that the daily averages for the year range from \$1.68 to \$3.21, with a final average for all men at all mines, and presumably for the industry, of \$2.23. Referring to the preceding tables it will be further observed that these men obtained work only 15.9 days per month. The average earnings in the machine mines, V and XI, are less per man, with one exception, than in the hand mines, though the more skilled among machine attendants receive from \$2 to \$2.50 per day. The unskilled, however, receive only \$1.75 and their number is so much greater, that the average of all is below \$2. Succeeding tables give the actual rates of wages and the earnings of individuals and of groups in the same occupations.

The smallest daily earnings, \$1.68, are found at mine VII, which is a long-wall, hand mine in low coal; an adjacent mine presenting the same general conditions affords the miners an opportunity to average \$2.10 a day. In the former the average monthly receipts are only \$28.60, while in the latter the men average \$39.76; this mine was suspended during the last two months of the year. The greatest daily earnings, \$3.21, are found in mine IV, and although the working time, as shown in the lower line, is small, the monthly earnings are \$43.82 and the yearly earnings, \$482.02, which are somewhat larger than in any other mine. In all study of the daily earnings of miners attention should be given to the number of days in the year in which those earnings have been possible. Information on this point is given in the figures at the foot of the table which show the average number of working days, and the actual running time at each mine in connection with the average daily earnings received.

The following table shows the average monthly earnings of miners as distinguished from their daily earnings, and gives a more definite conception of the actual revenues derived from their labor.

*Average earnings of all miners per man per month in eleven mines.*

Mines.....	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	Aver- ages.
System.....	L.-W.	L.-W.	L.-W.	P.-R.	P.-R.	P.-R.	L.-W.	L.-W.	P.-R.	P.-R.	P.-R.	
Coal.....	3½ ft.	3½ ft.	3½ ft.	5½ ft.	5½ ft.	5½ ft.	3 ft.	3 ft.	5½ ft.	8 ft.	7 ft.	
Price.....	90 cts.	90 cts.	90 cts.	80 cts.	M'ch	80 cts.	95 cts.	95 cts.	55- 62½ c	50 cts.	M'ch.	
May.....	\$37 68	\$38 60	\$40 49	\$32 50	\$36 42	\$27 99	\$33 66	\$36 65	\$30 66	\$60 48	\$27 62	\$36 61
June.....	28 56	39 05	32 76	.....	40 93	40 93	22 77	35 55	25 14	51 75	24 08	34 15
July.....	44 35	47 14	35 00	19 07	38 24	40 62	5 08	33 90	30 06	42 20	30 73	33 29
August.....	45 10	52 55	42 64	44 70	38 16	32 34	36 20	44 43	46 87	12 00	39 67	39 51
September.....	18 04	45 02	13 25	58 10	28 04	43 38	37 40	44 85	38 90	33 90	39 29	36 38
October.....	45 12	53 16	2 85	63 45	30 17	44 23	37 72	52 79	45 74	44 14	37 57	41 54
November.....	45 33	45 68	33 92	52 73	34 75	35 65	32 23	39 30	48 13	35 63	30 40	39 43
December.....	38 01	24 87	25 48	41 63	34 31	29 75	31 09	36 11	46 85	18 11	27 11	32 12
January.....	20 67	.....	23 03	45 97	.....	31 04	24 94	33 11	36 24	25 04	26 89	29 66
February.....	34 00	.....	27 32	41 81	.....	29 85	29 98	39 43	33 58	23 37	29 09	32 05
March.....	27 79	.....	29 61	34 76	.....	22 59	21 27	.....	28 46	19 73	25 93	26 27
April.....	34 51	.....	34 05	44 47	.....	27 27	30 11	.....	20 71	29 06	21 50	30 21
Yearly ave'g's	\$34 65	\$43 26	\$29 09	\$43 32	\$36 20	\$33 90	\$28 60	\$39 76	\$36 59	\$32 90	\$30 12	\$35 53
Yearly earn'gs	415 80	346 08	349 08	482 02	289 60	406 80	343 20	397 60	439 08	394 80	361 44	384 14 426 36

In the table of daily earnings an element of error was recognized arising from the impossibility of making a true count of the miners' days of labor, and this error, in so far as it appeared at all in the results which entered into the foregoing table, was one of excess, that is, if the number of days accepted was in any degree less than the actual time devoted to labor, the apparent daily earnings were in the same degree larger than the actual. In computing the average monthly earnings an error occurs of an opposite tendency. This arises from the fact, heretofore mentioned, that these so-called monthly earnings are the amounts with which each man is credited on the monthly pay-roll. But there will be some in every large number of employés who begin work after the first of the month, possibly in the latter part of the month, whose receipts from the pay-roll of that month, will represent less than a month's labor. In the general tables following, the number of days' work is given in connection with the monthly earnings so as to show

the amount of labor actually expended; but in summarizing and averaging the monthly receipts of individuals for a year, or other period of employment, and reducing these to monthly averages for all the employés of given mines, the elimination of the short months is impracticable. The tendency of this element of error is, therefore, to show average monthly earnings somewhat smaller than the actual amounts received for full months of labor, though its effect upon the results obtained must be slight at most.

This table presents some strong contrasts in the matter of monthly earnings for single months. In mine III, for instance, in the month of September the whole force earned only an average of \$13.25 each, and in the next month only \$2.85 each. This is accounted for by the fact that the mine was running only seven days in September and three days in October, and, owing to the large number of men awaiting employment, it was impossible for many of them to get more than one day's work out of the three. Yet this insignificant amount of labor is properly placed in this table as a month's work, as it represents all the work which was possible to the men at this mine during the month; it also illustrates the degree of enforced idleness which is sometimes imposed upon men willing to work. In this case there were 280 men on the pay-roll in September, and they had only seven days' work; in October there were only 142, or one-half the former number of men who got any work at all, and then for only a part of three days, with the result that their average earnings were \$2.85 each. In the succeeding month, however, 290 men were given full employment and received \$33.92 each for their labor. In other words, after waiting the greater part of two months in idleness, these men obtained a full month's work and wages on the third. It also appears that work was continuous throughout the remainder of the year, so that it was probably better for these men to wait in idleness than attempt to move elsewhere in search of work. Although the earnings at this mine are not large at most, the average for the year is materially reduced by the experience of these two months. Leaving them out, the average receipts for full months of labor is \$32.43 instead of \$29.09.

A similar instance to the foregoing is found in mine VII, in the month of July, in which the mine was running only five days, and the men earned only \$5.08 each. There were 436 men who shared this work in July, while the average number on the force was over 500. Another case of small earnings is one in which the men received only \$12 each for a month's time, and 13.3 days' labor; and there are several in which the average disbursements were less than \$20 per man. On the other hand, the highest average earnings for any one month was \$63.45, which was shared by 321 men; the next was \$60.48, disbursed to 123 men; the next, \$53.10, to 284 men, and there are five other months in which the average earnings of 1,676 men was over \$50 each. In mine IV, the average monthly earnings of 948 men for the three months, September, October and November, was \$58.10 each. As the entries in this table are averages for large numbers of men, it follows that some individuals in every mine and every month earned amounts considerably larger and smaller than any of the averages. It has been found that in almost all mines, except machine mines, there are a few men who occasionally earn as much as \$100 in one month. This implies, however, unusual skill and endurance, and a maximum of all favorable conditions. By reference to the subsequent tables of individual experiences and the tables of classified amounts of earnings, it will be seen what proportion of the whole number earn the highest wages.

In two of the mines in this list all work was suspended and the mines closed for indefinite periods on the first of January, or four months before the close of the year under consideration; another was similarly closed two months before the end of the year. This action was taken in each case because the demand for coal was not greater than could be supplied from other mines operated by the same companies. About two-thirds of the men who were thus displaced were absorbed in other adjacent mines, and the remainder are unaccounted for. Reference to the preceding table of the number of men employed each month in the different mines will show how the number of employés was increased, in certain mines, particularly in I, III, IV and VII, after the adjacent mines had been closed. In this table another effect of this curtailment of operations may be observed

in the fact that the per capita earnings declined about 20 per cent. in those mines and for those months in which the number of men was thus unduly increased.

The averages brought down to represent the monthly results of the year's work are really the results of those months in which the miner worked. It is difficult to go beyond this, as it is impossible to know what his occupation and earnings were for the months in which he does not appear on the pay-roll. Previous tables sufficiently show the amount of time miners lose, and must expect to lose, each year, by reason of delays and suspensions of work for which they are not responsible, and the purpose of this table is to show the various amounts which the miner may expect to realize from his labor, under given circumstances, when at work with such regularity as the business affords.

The final average, and the conclusion reached by this exhibit is that 5,356 miners and machine operatives in Illinois, working under every variety of terms and conditions, received, as the result of a year's labor, an average of \$35.53 each per month. The averages in the different counties are as follows: Three mines in Bureau county, \$35.89; three mines in LaSalle county, \$37.97; two mines in Will county, \$34.15; one mine in Sangamon county, \$36.59; one mine in Macoupin county, \$32.90, and one mine in Madison county, 30.12. In the first three of these counties, and in the mines here mentioned, among others, the great strike of 1889 was provoked by an attempt to reduce the rate of wages ten cents a ton, or from ten to twelve and a half per cent. The reduction which was finally submitted to, and which has since been restored, was seven and a half cents a ton. Under the operation of this compromise the average earnings in Bureau county were reduced from \$35.89 to \$32.90; in LaSalle county, from \$37.97 to \$34.41; in Will county, from \$34.15 to \$31.46.

The net earnings of these various groups of miners per annum are given in this table as though they actually remained idle and earned nothing in those months when the mines in which they worked were idle. The yearly earnings in those mines which were in operation less than twelve months are consequently smaller than either the possible or probable earnings of the men represented. In eight of these mines work was continu-



ous for twelve consecutive months, one of them only having been closed one month for repairs. The miners employed in them received for the labor performed during that period, sums ranging from \$343.20 in one mine to \$482.02 in another. In four mines the average of yearly earnings was over \$400; in seven, the average was less. The average for all mines was \$384.14. If, however, the eleven mines had run continuously for 132 months instead of 121 months, the average yearly earnings at the same ratio would have been \$426.36.

This concludes the review of the special features of the presentation by summaries and averages. The summary tables themselves are found in subsequent pages, and should be referred to for further details, and for a grouping of all the facts relating to each mine. In a foot-note with each of these tables is a reference to certain employés who are not included in the tables themselves. These are of two classes: Those adult miners and laborers who have performed only transient labor, of a few days' duration, during the year; and the sons of miners, who have worked with their fathers. The former have been omitted from the tables because their service and earnings have been so small as to be of no significance among so many regular employés, and because giving them a place among the latter would unduly encumber tables which are necessarily very full, and, finally, because carrying the earnings of two or three days' casual labor into the column of monthly receipts would pervert the intent and true interpretation of that column. The work and wages of miners' sons are given in the foot-note because it has been necessary to eliminate both from the accounts of the fathers with whom they have worked in order to avoid the error of crediting excessive product and earnings to the several fathers.

Both these classes might have been dropped with this explanation, but that in the aggregate the amount of tons produced and wages received by all these persons during a year is so considerable as to be worthy of record. The whole number of men is consequently given, the number of days' work, the number of tons mined and the total receipts. These figures added to the principal totals afford a summary of all the product and earnings of the entire force.

The foregoing analysis has been confined to the experience of coal miners, to the exclusion of other employés, for the reason

that it is to the terms of their employment and the nature of their duties to which attention has been specially directed, and which it is the object of the investigation to make known. The experience of other employés, however, those engaged in other miscellaneous but essential duties connected with the operation of mines, is also recorded in subsequent tables, and is made the subject of special mention in another connection. The next consideration in order is an examination of the statistics of individual earnings and working time as presented in the tables devoted to that subject.

### INDIVIDUAL TABLES.

The massing of totals and the reducing of many details to a few general statements is legitimate, and the conclusions reached are trustworthy, in so far as the premises and processes are true; yet the soundest inductions are emphasized most by a presentation of the particular facts from which they are drawn. It is, for instance, entirely true that in a given mine in this list 374 men earned, during a year of labor, an average of \$33.90 each per month, but this statement affords no clue to the number who earned more than the average, or less than the average; nor to the amounts which the most efficient or least efficient earned; nor how much more than the average is earned in one month, or less in another; nor whether the whole is earned in twelve full months or twelve fractional months. Every detail is necessarily obscured in an average, which, while it may be true of a collective body, may not be literally true of any individual in it. It is consequently of the highest importance to develop all the details from which both averages and percentages are drawn, in order that their justification and integrity may be fully established.

In accordance with this view, the principal tables in this report are devoted to the specific time and earnings of individuals. A limit is, however, very soon disclosed in attempting to present the personal experiences of a large number of men. The unit in this investigation has been the monthly statement of the employé, in which appears his credits, his debits, and his balance of account for the month; but the whole number of these which have come under the scrutiny of the bureau has

been somewhat more than thirty-five thousand; and although the logic of the case might demand a tabulation on this basis, and much significant shading is lost by a failure to do so, such a set of tables would far exceed the limits of this report. It has consequently been necessary to condense all the monthly statements into an annual statement for each employé. This obscures alike the large earnings of the full-time months and the small earnings of fractional months, in a total of all earnings for the year, and a level average for monthly earnings; but the essential elements of the account are preserved so far as to show the actual and relative working time; the yearly, monthly and daily averages of earnings; and the relation which the latter sustain to the amount required for daily subsistence during the period of employment. In addition to these facts, the terms of employment and the physical conditions under which the labor of the miner is performed are given in detail for each mine. The terms consist of a given rate of wages per ton of screened coal, which involves, under some systems of mining, a greater or less expenditure by the miner for blasting powder. This rate varies from 50 cents to 95 cents a ton in different places. The conditions which govern in making these rates are the location of the mine, the thickness of the coal, the manner of working it, the structure of the screen, etc.

The form of table constructed to present these details is shown in the following example:

**EXTRACTS FROM TABLE XXIV.—Individual Earnings and Working-Time.****ESTABLISHMENT IX.—Coal Mine in Sangamon County.**

CONDITIONS:—Depth of shaft, 240 feet; thickness of coal,  $\frac{5}{8}$  feet; working places, dry; system of working, pillar-and-room; coal blasted from the solid wall without mining; irregularities of the seam known as "horse-backs" frequent; prices paid to miners  $5\frac{1}{4}$  cents a ton from May to October, 62 $\frac{1}{4}$  cents from October to April and 55 cents for April; check-weighman at the scale; screen bars  $\frac{1}{8}$  of an inch apart.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employe.	Gross earnings of employe for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employe for the time he appears on the pay-roll.	Average monthly receipts for the months employe appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employe appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	306	241	12	221	\$768 85	\$180 35	\$588 50	\$49 04	\$2 60	74	94	\$1 61
Miner.....	306	241	12	231	711 00	126 25	584 75	48 73	2 53	75	96	1 60
Miner.....	306	241	12	196	431 35	121 25	310 10	25 84	1 58	64	81	85
Miner.....	306	241	12	214	379 40	75 25	304 15	25 35	1 42	70	89	83
Miner.....	280	222	11	187	765 70	12 90	752 80	68 44	4 03	67	84	2 26
Miner.....	280	231	11	217	840 15	164 25	675 90	61 45	3 11	78	94	2 02
Miner.....	280	222	11	212	137 00	101 80	335 70	30 52	1 58	76	93	1 01
Miner.....	280	222	11	217	431 05	116 75	314 30	28 57	1 45	77	99	94
Miner.....	255	218	10	173	502 20	96 05	406 15	40 62	2 35	68	79	1 33
Miner.....	255	218	10	194	474 20	93 70	380 50	38 05	1 96	76	89	1 25
Miner.....	254	206	10	179	475 35	103 85	371 50	37 15	2 08	70	87	1 23
Miner.....	255	218	10	147	300 40	61 35	239 05	23 90	1 63	58	67	79
Miner.....	232	200	9	200	625 10	111 45	513 65	57 07	2 57	86	100	1 86
Miner.....	229	186	9	174	643 80	141 50	502 30	55 81	2 91	76	94	1 84
Miner.....	229	186	9	162	537 30	100 70	436 60	46 51	2 69	71	87	1 60
Miner.....	232	200	9	139	255 30	58 30	197 00	21 89	1 42	60	70	72
Miner.....	206	182	8	170	620 05	129 45	490 60	61 23	2 89	83	93	2 00
Miner.....	202	160	8	152	601 35	114 35	487 00	60 87	3 20	75	95	2 01
Miner.....	207	175	8	136	264 55	53 35	211 20	26 40	1 62	63	74	86
Miner.....	204	140	8	114	248 40	49 25	199 15	24 89	1 75	57	81	82
Miner.....	177	136	7	123	622 45	137 25	485 20	69 31	3 94	69	90	2 29
Miner.....	177	136	7	127	362 50	36 50	326 00	46 59	2 57	72	93	1 54
Miner.....	176	131	7	118	281 55	68 80	212 75	30 39	1 80	67	88	1 00
Miner.....	177	156	7	99	144 85	45 45	99 40	14 20	1 00	56	63	47
Miner.....	156	132	6	114	409 35	61 60	347 75	57 96	3 05	73	86	1 89
Miner.....	154	147	6	130	354 55	61 60	292 95	48 83	2 25	84	88	1 59
Miner.....	151	137	6	103	245 55	49 05	156 50	26 08	1 52	68	75	86
Miner.....	155	138	6	135	200 15	63 00	137 15	22 86	1 02	87	98	75
Miner.....	129	105	5	105	421 40	61 10	360 30	72 06	3 43	81	100	2 35
Miner.....	129	105	5	104	412 40	68 65	343 75	68 75	3 31	81	99	2 25
Miner.....	129	111	5	80	139 45	35 90	103 55	20 71	1 29	62	72	69
Miner.....	129	105	5	86	125 75	28 40	97 35	19 47	1 13	67	82	64
Miner.....	104	102	4	79	338 10	73 65	264 45	66 11	3 35	76	77	2 17
Miner.....	100	59	4	56	271 20	60 05	211 15	52 79	3 77	56	95	1 76
Miner.....	104	91	4	56	100 40	24 60	75 80	18 95	1 35	54	62	62
Miner.....	101	91	4	63	96 95	24 95	72 00	18 00	1 14	61	70	59
Miner.....	77	76	3	70	348 10	75 65	272 45	90 82	3 89	91	92	2 99
Miner.....	77	77	3	71	245 70	40 45	205 25	68 41	2 89	92	92	2 23
Miner.....	74	49	3	36	85 15	22 75	62 40	20 80	1 73	49	73	69
Miner.....	74	49	3	30	61 80	16 80	45 00	15 00	1 50	41	61	50

**EXTRACTS FROM TABLE XXIV.***Establishment IX.—Concluded.*

OCCUPATION.	Possible working time omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	52	50	2	34	\$169 00	\$51 85	\$117 15	\$58 58	\$3 45	65	68	\$1 92
Miner.....	52	50	2	33	1 06 15	16 30	89 85	44 98	2 72	63	66	1 47
Miner.....	52	41	2	27	30 35	8 45	21 90	10 95	81	52	66	36
Miner.....	52	41	2	27	30 35	8 45	21 90	10 95	81	52	66	36
Miner.....	25	25	1	23	87 40	16 05	71 35	71 35	3 10	92	92	2 30
Miner.....	25	25	1	18	51 60	10 35	41 25	41 25	2 22	72	72	1 35
Miner.....	25	24	1	7	9 75	3 05	6 70	6 70	96	28	29	22
Miner.....	26	16	1	10	14 05	9 35	4 70	4 70	47	38	65	16

This table is made up of extracts from one of the succeeding general tables. In those tables all employés are grouped by the number of months they appear on the pay-rolls, those who worked twelve months being placed first, those who worked eleven months next, and so on to those who worked only one month, or at least appeared on the pay-roll but once. For purposes of illustration this table is formed of groups of four taken from each of these classes, and in order to show the extremes of earnings in each class the groups are composed of the two who earned the most and the two who earned the least during their respective terms of employment.

The head lines of the table show in what county the mine is located, the character of the coal, the method of working it, and the prices paid for mining. Each line of the table contains a summary of the experience of one miner for one year, or such part of the year as he worked at this place. The first seven columns are devoted to the facts regarding time and earnings, and the last five to averages and percentages derived from them. Reading the table for the first group it appears that these four men were found on the pay-rolls for twelve consecutive months; that within this period there were 306 working days, during which the mine was in active operation 241 days;

that these men actually worked 214, 196, 321 and 226 days respectively; that their gross earnings were sums ranging from \$379.40 to \$788.85, from which they received, after deducting the charges for powder, oil and smithing, \$304.15, \$310.10, \$584.75 and \$588.50 respectively as the net result of a year's work. These facts, as reduced in subsequent columns, show average monthly earnings ranging from \$25.35, to \$49.04; average daily earnings from \$1.42 to \$2.60; working-time, ranging from 64 to 75 per cent. of full time; and a daily subsistence fund, ranging from 83 cents to \$1.61 each. The totals of days and dollars in each of these lines are made up from an addition of the twelve monthly statements of each man as found on the respective pay-rolls. This of necessity obliterates the variations of experience from month to month, but that is of secondary moment. In this specimen table, there is also no indication of the relative number who worked twelve or less than twelve months during the year, but in the full tables these numbers appear.

The general scope and intent of this table is made obvious by the arrangement and headings. The real objective is the relative efficiency and earning capacity of individuals, as distinguished from miscellaneous groups. The general facts are brought out in the summary tables, the particular facts are given in the individual tables, of which this is an illustration. These consist of the details of time devoted to labor as well as of income from labor, thus developing the relative skill and endurance of individual laborers as well as the actual receipts from their labor.

The columns devoted to the record of time in each man's case are six, and define the possible, relative and actual time of his labor. Possible time embraces all the days of the year except Sundays and seven holidays, or 306 working days. This is possible time, however, only to the mine operator. The actual running time includes only those days in the year in which the mine is in active operation. This is, in general, the possible time of the miner. The actual working time of the miner is the number of days of running time which he really devotes to labor. It will occasionally appear, however, that the running time of the mine is greater than possible time.

This occurs only when some of the seven holidays are not observed. It occasionally happens also that a miner's working time will be greater than the running time of the mine. This is the case when he is employed at miscellaneous day labor during the temporary suspension of mining operations. The regular day-men about any mine frequently make more day's work than running time for the reason that their duties may be continuous; some even are credited with more than possible time, or 306 days, because they work Sundays and holidays; such are watchmen, mule-tenders, and in some places, engineers and firemen. In addition to the several kinds of time thus recorded in days, each man is credited with the number of months in which he appears on the pay-roll. The real measure of the period defined as a month or as several months, is found in the adjacent column which gives the number of working days which compose them. Thus, though there may be some inexactness in the stated amount of monthly earnings, not apparent in the detached statement, it is at once made apparent and corrected by reference to the number of days' work embraced within the period named.

An examination of the group of men, in the foregoing table, who worked six months each, will serve to illustrate several features of the time columns. The four men in this case were each paid on six monthly pay-rolls during the year, the inference from this fact alone being that they worked six consecutive months, and the same months, and whole months. That no two of them worked the same months appears from the fact that neither the possible time nor the running time of the mine was the same for any two of them. These days are counted for the actual months in which each worked, which may have contained from 24 to 27 working days each, and even a wider range of running days. In fact, though each of these men worked six months, the difference in the working time possible to each was five days in all, and the difference in the running time of the mine was 15 days. In the succeeding group of five months' men, it will be observed that the possible time was the same for each and the running time the same for three, showing that the latter worked during the same months and presumably consecutive months, but that one was recorded in different months.

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Recurring to the six months' men, it will be observed that the differences between the number of days they actually worked are still greater than between the days which it was possible to work. In this respect the most constant worker accomplished 32 days' work more, during the six months, than the least industrious, yet the former really earned the least money of all; the man who worked 130 days also earned less than he who worked only 114. This illustrates in rather a marked degree the extent to which earnings are governed by individual capacity aside from the rate of wages; also the lack of definiteness there is in presenting averages for miscellaneous groups of workmen. Other cases of the same kind may be observed throughout the tables; they are so frequent, in fact, that but little can be safely inferred as to relative earnings from an examination of the column of working days alone. In the final group, or that composed of one-month men, is a more forcible example of the varying efficiency of men and of the importance of the columns of working days. During a single month these four men earned, respectively, \$4.70, \$6.70, \$41.25 and \$71.35, and without other information, it would be impossible to reconcile these figures. The explanation is found partly in the column of days and partly in the greater skill and ability of the one who earned most.

In the individual tables are also found columns for gross and net earnings which deserve some mention. The gross earnings include whatever credits are due the miner for the tons of coal he has delivered during the month at the stated price per ton, and also such amounts as he has earned for miscellaneous other work. This last item is usually small in amount though not always, and not at all universal, though there are very few miners who do not earn something outside their wages for mining in the course of any continuous employment. These items clearly belong in the sum of their earnings, and they are accordingly added to the amounts which the miner received for mining coal. For this reason it will frequently be found that the gross earnings are a sum larger than that which would result from the multiplication of the number of tons produced by the rate paid per ton.

From this amount of gross earnings certain deductions are made to cover charges for powder and oil furnished to the miner,



by the company, and for sharpening and repairing the miners' tools. These charges are generally made on the pay-roll, for the reason that the mine owners usually sell the powder and oil to their employés and have the necessary smithing done in the company's shop. This practice is almost universal, and is made so by the fact that powder and oil are in constant demand and must be readily accessible to the men, whereas the mines are usually somewhat remote from the town or village stores. It is moreover a source of profit to the proprietors, and is regarded by some as a legitimate feature of the business of mining coal. Other companies, however, do not maintain company stores nor sell powder and oil.

In mines operated with machines the explosives are furnished by the proprietors; in others, powder is not used at all in the mining process; in some there is comparatively very little used; in others, the principal reliance, in reducing the mineral so that it can be handled, is in blasting. Of the last class is the mine from which the foregoing table is obtained, and the amount of the deductions is consequently very much larger than in any of the other tables. It is, however, a type, in this respect, of all mines in which coal is blasted from the solid wall without undermining. The charges for oil and smithing are in themselves trifling as compared with that for powder. The oil for which this charge is made, is simply that used in the little lamp set in the miner's cap while at work or moving about in the darkness of the mine. The rate of charges for keeping the miners' tools in repair is usually a monthly rate of 50 cents, more or less, for each man, though it is sometimes two cents, more or less, a ton for the coal the miner delivers during the month.

Owing to the foregoing circumstances, great differences will appear in the amounts of deductions at the various mines, and in the machine mines there will be none, for the reasons given. In all cases the amounts entered in the tables are those found on the pay-rolls, except in mines IV and VI. The deduction made on these pay-rolls was simply 50 cents for smithing, and it was learned that the men bought and paid for their powder and oil, either in the company store or elsewhere, as they chose, and no record of it was made on the pay-rolls. The amounts which miners in this coal usually expended for powder

and oil were accordingly ascertained by inquiry among them. This led to the conclusion that a liberal allowance for the cost of powder was three cents a ton, and for oil, two and a half cents a day. Upon this basis each man's expenditure for powder and oil was computed and the results, added to the charges for smithing, were entered in the column of deductions in order to show net earnings as in other mines, though in fact these amounts were not deducted from the miners' earnings on pay-day.

In order to show the relative amounts expended by miners for these necessities in different mines and places, the following grouping of totals is presented:

ESTABLISHMENT.	CHARGES FOR POWDER, OIL AND SMITHING DURING THE YEAR.				
	Total number of tons mined.	Total amount of pay-rolls.	Deductions for powder, oil and smithing.	Net receipts of miners.	Per cent. of deductions.
I .....	175,022	\$162,128 48	\$3,952 43	\$158,776 05	2.07
II .....	156,203	144,699 32	3,092 32	141,607 00	2.14
III .....	114,710	105,248 52	2,290 45	102,958 07	2.17
IV .....	192,517	163,683 08	8,430 20	155,252 88	5.15
V .....	55,606	44,891 17	.....	44,891 17	.....
VI .....	187,087	160,818 69	8,863 49	151,955 20	5.51
VII .....	190,535	184,750 15	8,685 72	183,241 15	1.99
VIII .....	123,933	119,867 65	1,878 65	119,124 26	1.60
IX .....	65,789	56,372 25	11,771 30	44,600 95	20.88
X .....	111,906	55,945 22	3,005 95	52,939 27	5.37
XI .....	104,663	40,118 94	.....	39,938 44	.....
Totals .....	1,477,981	\$1,238,342 97	\$43,058 53	\$1,195,284 44	.....

These figures show the total number of tons, of 2,000 pounds, produced, the gross earnings of all the miners in each mine during the year, the amounts of their expenses for powder, oil and smithing, and the net earnings remaining for the maintenance of themselves and families. The percentages of gross earnings which the charges for these necessities absorb is shown in the final column, and the variation is specially noteworthy, as it directly affects, or should affect, the rate of wages. In five of these mines the percentage is low, ranging from 1.60 to 2.17. These are long-wall mines, in which the expense for powder

is comparatively nothing, and the deduction is in general for lamp oil and the sharpening of tools. In three mines the deduction ranges from 5.15 to 5.51 per cent. of the gross earnings. In these mines the coal is under-cut with picks and then blasted down, which is the ordinary process of mining, and requires the constant use of powder, though in quantities regulated by the nature of the seam and the skill of the miner. In mine IX, however, one-fifth, or 20.88 per cent. of the gross earnings, is absorbed in expenses for powder, oil and smithing, the most of which is for powder. Judging from the percentages where no powder is used, it would appear that about two per cent. covers the expenses for oil and smithing alone. This would leave 18 per cent. of gross earnings as the cost of powder under the peculiar system practiced in this mine, and in others of its class. This method consists of blasting without under mining, and results in a saving of that laborious process, at a greatly increased expense for powder. Upon the basis of a cost for powder in other mines equal to three per cent. of gross earnings, the excess of cost in mines of this class would be 15 per cent. of those earnings. Other things being equal, that is, the price of powder and working conditions, this should be the measure of difference between the prices of mining in the two kinds of mines.

The columns showing the average earnings per month and per day require no further mention than to say that they are derived from the division of the net earnings by the recorded months and days of labor. It has already been observed that certain fractional months are unavoidably computed as full months in this way, and that in consequence the averages given are in some cases somewhat smaller than the actual earnings for full months, more especially when the number of months is very few. This error is, however, corrected by the column of working days. On the other hand, the average daily earnings given may be somewhat more than actual earnings, owing to the possibility that the miner may have worked occasional days of which no record was made. This, however, would result in only a decimal of variation, in particular cases, if the fact were established.

The percentages of time in the next two columns simply express the ratio which the given numbers of days in the preceding columns sustain to each other.

The final column affords an indication of the real sufficiency of the earnings received in showing how much they give the workman for the daily subsistence of himself and his family. Every man's expenses are continuous, however intermittent his income may be, and the computation in this column is intended to show the daily subsistence fund derived from each man's labor as distinguished from his daily earnings. To arrive at this, the net earnings are divided by the number of all days within the period covered by each man's nominal employment, so far as that can be determined. It is not always possible to do this except approximately. For men who appear on twelve consecutive pay-rolls it is doubtless proper to divide their earnings by 365; but for men who receive pay on only two or three pay-rolls it may involve an error to divide by the whole number of days in the given months, for they may have worked elsewhere, or have had some other source of income during some part of either the first or last of those months. In the absence of any certain guide in this matter, the whole number of days in the number of months the employé appears on the pay-roll has been used as the divisor. Every presumption is in favor of the substantial truthfulness of the results thus obtained, and the verification or necessary modification of each case may be found in the various qualifying terms in adjacent columns.

The following figures indicate the relation which the average daily earnings of miners sustain to the average amounts which those earnings represent as available for daily subsistence:

ESTABLISH- MENT.	NUMBER OF MINERS.	WORKING TIME.			LIVING TIME.		
		Average earnings per man per day.	Whole number of days' work.	Average number of days' work per man.	Daily sub- sistence fund.	Whole number of living days.	Average number of living days per man.
I .....	685	\$2 30	69,086	100.9	\$1 14	139,277	203
II .....	575	2 50	56,648	98.5	1 45	97,657	170
III .....	658	2 13	48,388	73.5	97	106,142	161
IV .....	453	3 21	48,311	106.6	1 46	106,338	235
V .....	417	2 01	22,387	53.7	1 08	41,566	100
VI .....	589	2 72	55,904	94.9	1 12	144,719	245
VII .....	940	1 68	108,836	115.8	94	194,987	207
VIII .....	457	2 10	56,763	124.2	1 31	90,935	199
IX .....	210	2 07	21,576	103	1 21	36,860	176
X .....	205	1 83	29,004	141.5	1 05	50,418	246
XI .....	167	1 83	21,793	130.5	92	42,945	257
Totals and averages..	5,356	\$2 23	538,691	100.6	\$1 14	1,051,794	196

This table shows the whole number of men employed at each mine, the whole number of days' work performed during the year, and the average daily earnings of the men compared with the whole number of days which the men presumably lived at the several places and for which it was necessary to provide subsistence out of the net earnings received. Former tables afford comparisons of the days of actual labor, with possible working time and with the running time of mines, but this shows the relation of wage-earning days to all days.

Reduced to totals and averages, the statement is that 5,356 miners devoted 538,691 days to labor, or an average of 100.6 days each, and that they earned an average of \$2.23 each per day, while at work. During the period, however, in which these men were enrolled as employés at the several mines, there were in all 1,051,794 days, or an average of 196 days each, for which it was necessary to provide maintenance. Distributed over this period the actual earnings constitute an average daily subsistence fund of \$1.14 to each. The usual variation, in this respect is observable, in the averages for the different mines, the highest of which is \$1.46, and the lowest 92 cents; in the general tables following, much wider differences will appear as the experiences of individuals, to these reference should be made for all particulars which enter into this condensed generalization.

It has been shown in former pages that men in this occupation, as a class, have employment about two-thirds of full working time computed as 306 days in the year; from the foregoing it appears that this working time is only 51.2 per cent. of the actual number of days during which the miner must subsist, that is, 30 days in each month, or 365 days in the year; in brief that the earnings of one day must, on an average, maintain the miner and his family two days. The living days which enter into this computation embrace all the days in the months or parts of months for which the miner receives pay, as explained, page LVII, in another connection.

#### OTHER EMPLOYÉS.

The foregoing commentary and illustration has been confined to the peculiarities of employment among coal miners proper, to the exclusion of other employés about mines. These constitute a considerable class in the aggregate, the whole number on the pay-rolls examined being 2,607, or 32.7 per cent., of all those enrolled. This ratio, however, is doubtless somewhat more than normal for the reason that at several mines in this list there was an unusual number of laborers employed, both above and below, in work which was more in the nature of construction and development than of operation.

The same treatment and analysis has, however, been given to the earnings of other employés as to those of miners; each man's experience is given in detail in the individual tables, and in totals by months in the summary tables, and in groups by occupations in the recapitulation tables. In the latter, the number in each class is given and the total days of labor and the net earnings of the class as a whole, with the proper averages for the monthly and daily earnings of individuals. Reference should be made to these tables for the general results of employment among men other than miners. An epitome of the average daily earnings of these men in all the occupations is, however, presented herewith.

OCCUPATIONS.	NUMBER AND AVERAGE DAILY EARNINGS OF OTHER EMPLOYEES THAN MINERS, BY OCCUPATION.											
	I		II		III		IV		V		VI	
	No.	Av.	No.	Av.	No.	Av.	No.	Av.	No.	Av.	No.	Av.
Mine bosses .....	8	\$2 64	14	\$2 43	10	\$2 51	1	\$3 60	2	\$3 00	1	\$3 50
Engineers .....	9	2 18	9	2 17	7	2 35	3	2 11	4	1 85	2	2 15
Firemen .....	6	1 55	2	1 50	2	1 53	9	1 65	10	1 68	4	1 34
Weighmen .....	6	1 82	5	1 75	3	1 75	1	2 80	1	1 17	1	2 40
Dumpers .....	8	1 62	11	1 76	.....	.....	.....	.....	1	1 75	2	1 75
Machinists .....	3	2 45	2	2 67	1	2 28	.....	.....	.....	.....	.....	.....
Blacksmiths .....	8	2 19	3	2 13	3	2 21	7	1 86	2	2 13	1	2 25
Carpenters .....	5	1 75	5	2 21	4	2 03	10	2 20	1	2 25	2	2 25
Masons .....	.....	.....	3	3 36	7	2 65	2	3 25	.....	.....	.....	.....
Watchmen .....	1	1 93	.....	.....	.....	.....	1	1 56	1	1 50	1	1 58
Timbermen .....	32	2 00	16	2 02	9	2 00	.....	.....	.....	.....	.....	.....
Roadmen .....	16	2 01	14	2 13	7	2 16	19	2 26	39	2 80	16	2 11
Drivers .....	81	2 03	88	2 04	18	2 02	44	2 03	17	1 79	79	1 84
Mule bosses .....	.....	.....	.....	.....	.....	.....	1	2 42	.....	.....	1	1 64
Mule tenders .....	10	1 78	4	1 54	1	1 50	1	1 81	1	1 63	2	87
Cagers .....	18	1 87	7	1 96	9	1 91	7	1 75	3	2 30	2	2 30
Trappers, boys .....	29	74	30	75	22	78	13	93	5	90	18	90
Oilers .....	.....	.....	2	75	.....	.....	.....	.....	.....	.....	2	90
Pushers .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1 00
Brushers .....	30	2 09	27	2 04	2	2 00	.....	.....	.....	.....	.....	.....
Track-layers .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Laborers .....	.....	.....	.....	.....	.....	.....	31	1 75	.....	.....	.....	.....
Laborers, top .....	117	1 52	293	1 67	83	1 52	.....	.....	.....	.....	14	1 57
Laborers, below .....	167	2 00	138	2 00	83	2 01	.....	.....	.....	.....	61	1 75
Surveyors .....	3	1 96	4	1 70	.....	.....	.....	.....	.....	.....	.....	.....
Well-sinkers .....	.....	.....	7	2 98	.....	.....	.....	.....	.....	.....	.....	.....
Teamsters .....	6	1 43	.....	.....	1	1 44	.....	.....	.....	.....	.....	.....
Water-bailers .....	.....	.....	.....	.....	.....	.....	8	1 75	.....	.....	14	1 71
Pipemen .....	.....	.....	.....	.....	.....	.....	.....	.....	2	1 90	.....	.....
Pumpers .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	2 17
Water-shaft men .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	1 96
Trimmers .....	.....	.....	.....	.....	.....	.....	12	1 50	9	1 51	.....	.....
Slack haulers .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Section boss .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Section men .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Switchmen .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Helpers .....	.....	.....	.....	.....	.....	.....	.....	.....	3	1 70	2	1 65

OCCUPATIONS.	NUMBER AND AVERAGE DAILY EARNINGS OF OTHER EMPLOYEES THAN MINERS, BY OCCUPATIONS.									
	VII		VIII		IX		X		XI	
	No.	Av.	No.	Av.	No.	Av.	No.	Av.	No.	Av.
Mine bosses .....	2	\$2 85	2	\$3 12	1	\$3 27	3	\$2 96	1	\$3 00
Engineers .....	3	1 82	2	1 81	1	2 94	5	1 81	3	2 16
Firemen .....	2	1 50	1	1 46	2	1 50	5	1 67	2	1 98
Weighmen .....	1	3 21	2	2 07	1	2 11	2	2 00		
Dumpers .....					2	1 50	1	1 12	3	1 75
Machinists .....							1	2 55		
Blacksmiths .....	2	2 11	1	2 25	1	2 50	5	1 93	3	2 01
Carpenters .....	5	2 44			2	2 00	8	2 06	2	1 42
Masons .....										
Watchmen .....					1	1 33			2	1 28
Timbermen .....	21	2 05	23	2 00			3	1 93		
Roadmen .....							3	1 97	1	2 00
Drivers .....	61	1 51	29	1 52	19	1 90	21	1 87	8	1 64
Mule bosses .....										
Mule tenders .....	1	1 64	1	1 65			1	1 50		
Cagers .....			2	2 05	3	1 33	2	1 36	2	1 91
Trappers, boys .....	7	89	10	80	2	60			10	73
Oilers .....	3	1 00	3	1 05			4	82		
Pushers .....							1	1 19		
Brushers .....										
Track-layers .....	1	2 40	3	2 25	2	2 37				
Laborers .....	29	1 56	23	1 53	1	1 50	74	1 63		
Laborers, top .....										
Laborers, below .....										
Surveyors .....										
Well-sinkers .....										
Teamsters .....	2	1 62					2	1 31	3	1 73
Water-bailers .....										
Pipemen .....										
Pumpers .....										
Water-shaft men .....										
Trimmers .....					7	1 50				
Slack haulers .....					2	1 62				
Section boss .....	1	1 76								
Section men .....	7	1 25	5	1 24						
Switchmen .....	1	1 60	1	1 60						
Helpers .....					1	2 00	1	1 75		



This table shows the number of men in each class who have had employment in each mine during the year, and with the number is given the average daily earnings of each group. These figures are valuable only as an indication of the relative wages in different occupations and at different mines in the same occupations. For the rates of wages in each man's case, and consequently the extremes of wages and earnings, reference should be made to the more specific tables. It will be observed that not all the specified occupations in this table are common to every mine. This is owing to the variety of methods and systems of mining in practice at the different mines. It should also be understood that the numbers given as employed in each class may not have been, and usually have not been, employed throughout the year. On the other hand, the changes in this auxiliary force are frequent, especially among the least skilled. Thus, although there may have been 8, 10 or 14 mine bosses on the pay-rolls of a single mine during the year, the real number constantly on duty may not have been more than half those numbers. In order to discover the facts in this regard, it is necessary to refer to the record of the time these several employés were under employment, which appears in the individual tables. The same is true as to all other employés, and especially as to laborers. Connected with the first three mines there were, for instance, 493 laborers enrolled as under employment on the surface, and 388 as employed under ground during the year. By reference to the several recapitulation tables, it will be found that the whole number of days' work performed by these 881 men was 40,821, or an average of only 46.3 days each; yet the range of working days for different men is from six to all the days in the year. The second section of each of the summary tables shows the whole number of men employed during the year, and also the number employed each month, and thus indicates what number constitutes the constant working force.

The average daily earnings as presented in this table obscure the highest and lowest alike, and consequently can only be considered as averages for the number specified in each case; they should also be considered subject to the modifications shown in the tables of working time.

## MACHINE MEN.

Another class of mine employés whose earnings have not yet been shown separately, is the class which with the aid of machines performs the functions of the ordinary hand-miners. In the preceding pages attention has been given to coal miners proper, and to other employés about mines, but the statistics of the machine-men and their attendants have only appeared in totals and averages for miners as a class. In the machine mines the labor, which is ordinarily performed by the single miner, is divided among four or more men, to each of whom is assigned one part of it only. In order, therefore, to show the labor cost of mining in machine mines, or the earnings of those who receive the miners' pay, it is necessary to include all those who are engaged in the various processes of the hand-miner.

The foremost of these are those who direct and control the machine itself, and who are designated cutters, for the reason that they cut away the coal or clay at the bottom of the seam with the mechanical or power-pick very much as the miner cuts it away with the ordinary pick. The cutter has a helper who assists in handling the machine and clears away the debris which accumulates about it. These two proceed from room to room, always under-cutting or mining the coal. They are followed by the blasters and their helpers who drill the necessary holes, charge them with powder and explode them, thus loosening and breaking up the mass under-cut by the machines. These men are followed in turn by the timbermen, who place the necessary props to support the roof from which the coal has been removed, and they, by those who further reduce with sledges, and load the coal on pit-cars. The daily rates of wages and earnings of these classes as shown in the general tables are here reduced to concise statement, as follows:

## ESTABLISHMENT V.—LASALLE COUNTY.

OCCUPATION.	EARNINGS OF MACHINE OPERATIVES.					
	Rates of wages.			Number of men.	Average monthly earnings.	Average daily earnings.
Machine foremen.....	.....	\$2 30	\$2 50	4	\$64 14	\$2 36
Cutters .....	\$2 00	2 25	2 50	26	44 20	2 41
Blasters .....	.....	2 30	.....	5	46 17	2 30
Timbermen .....	1 75	2 00	2 30	18	44 76	2 12
Loaders .....	1 50	1 75	2 00	174	31 41	1 73
Helpers.....	1 50	1 75	2 00	38	31 80	1 75

## ESTABLISHMENT XI.—MADISON COUNTY.

OCCUPATION.	EARNINGS OF MACHINE OPERATIVES.					
	Rates of wages.			Number of men.	Average monthly earnings.	Average daily earnings.
Cutters.....	.....	\$2 25	.....	8	\$30 03	\$2 25
Blasters .....	.....	2 25	.....	9	39 74	2 25
Timbermen .....	\$2 00	2 25	.....	10	36 30	2 00
Loaders.....	1 75	2 00	\$2 25	109	28 27	1 77
Helpers .....	1 50	1 75	2 25	31	26 60	1 63

The relative efficiency of a given number of men working with the machines and without them, in daily output of coal, is largely a matter of circumstance, as appears in a preceding table showing the average number of tons delivered per man from these two mines and from all the other mines. In the latter of these mines the maximum of product is obtained per man, while in the former the per capita tonnage is less than the average; yet they both alike show average daily earnings materially less than those usually made by hand-miners. This arises from the fact that in the machine process much the greater number of employés are unskilled and practically rank as mere laborers, and only the few command the higher wages, while the average miner, when at work, earns considerably more than the mere loader or laborer in the machine mine.

## EARNINGS CLASSIFIED BY AMOUNTS.

The final feature of the statistics of each mine is a classification of the earnings of miners by the average amounts received monthly. These amounts range from very small sums representing the averages for few or fractional months, to \$75, or more as the occasional average of the most skillful or fortunate. If the classification were made upon the basis of actual earnings for each month, instead of the averages for the year, the extremes would be much wider; for it rarely happens that a man does not have a few opportunities in the course of a year to make exceptionally large monthly wages. These may, under favorable conditions, approximate or even exceed \$100 in a single month, while an average of the same man's work for three, or six, or twelve months might not exceed \$35. As the unit of tabulation in this case is the experience of the miner for a year, or such portion of a year as he may be found on the pay-rolls, it is impossible to extend the analysis by amounts beyond the average sums received monthly during the term of the miners' employment; it is, moreover, unnecessary, as it is the net earnings for a continuous period, rather than the possible earnings under occasional or exceptional circumstances, which it is desirable to know.

The following is a summary of the several classification tables found in connection with the statistics of mines in subsequent pages:

*Classification of the average monthly earnings of all the hand-miners who appeared on the pay-rolls of mine establishments during the year.*

ESTABLISHMENT.	NUMBER OF MEN WHO RECEIVED SPECIFIED MONTHLY EARNINGS IN THE SPECIFIED ESTABLISHMENTS DURING THE YEAR.													Total men.
	Under \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
I.....	66	91	118	148	125	91	36	7	6	1	1	.....	.....	685
II.....	11	22	38	64	82	133	100	71	29	16	5	1	3	575
III.....	137	121	144	184	67	33	12	2	3	3	1	1	.....	658
IV.....	16	15	22	37	98	137	39	45	18	9	4	3	.....	453
VI.....	26	75	137	176	94	44	23	10	3	.....	1	.....	.....	589
VII.....	185	200	242	209	76	22	6	.....	.....	.....	.....	.....	.....	940
VIII.....	14	22	52	61	95	139	51	16	6	1	.....	.....	.....	457
IX.....	21	38	38	38	21	21	12	4	6	3	5	2	1	210
X.....	20	22	36	69	30	14	6	4	1	2	1	.....	.....	205
Totals..	*496	606	822	936	688	634	295	159	72	35	18	7	4	4,772
Per cent.	10.4	12.7	17.3	19.6	14.4	13.3	6.2	3.3	1.5	0.7	0.4	0.12	0.08	100
Per cent. ....	.....	23.1	40.4	60.	74.4	87.7	93.9	97.2	98.7	99.4	99.8	99.92	100	.....
Per cent.	100	89.6	76.9	59.6	40.	25.6	12.3	6.1	2.8	1.30	0.60	0.20	.....	.....

\* Average earnings \$16.44 for an average of 10.6 days' work each per month.

† Average earnings of all men \$35.53 per month.

Number who earned more than the average, 1,967, or 41.6 per cent. of the whole.

Number who earned less than the average, 2,805, or 58.4 per cent. of the whole.

Monthly earnings are here separated into thirteen grades or classes, ranging from amounts less than \$20 to amounts more than \$75. Under each head is given the number of miners whose average receipts for the months employed fall within the amounts specified at the head of the column. The Roman numerals in the first column identify the several mines from which the given results have been obtained; the final column shows the whole number of men employed, and the bottom line the whole number whose average earnings are within the several classes. In this table is condensed the actual experience of 4,772 coal miners, those employed in machine mines being omitted; and these results are drawn from the pay-rolls of nine mines for twelve consecutive months, though the individuals composing the various groups have not all worked twelve months.

The first observation in this case is that 496, or 10+ per cent., of these men have received amounts less than \$20 as their average monthly earnings. This class embraces all those who have been least successful in getting continuous work, or advantageous working-places, or have been for any reason incapacitated, as well as those who have been least efficient or least industrious. Numerically they are about one-tenth of the whole number and represent those who have, for whatever reason, fared worst under the conditions of labor presented to them. Something of the relative advantages offered at different mines is indicated by the different numbers which appear in this column. The most conspicuous contrasts in this respect appear in mines which are locally contiguous to each other and in which natural conditions are supposed to be as nearly identical as possible. There are, for instance, only 11 men out of 575, or two per cent., in mine II, who earned less than \$20, and over 62 per cent. of the whole number earned more than \$40. In mine III, 137, or 20 per cent., are in the lowest class, and only 8.3 per cent. of the whole earned more than \$40. A similar difference is presented between the experiences of the men in mines VII and VIII. There is nothing in the record to account for these differences and miners explain them only by saying the work is better, that is, more can be accomplished in one mine than in the other. It is also possible that the more efficient men gradually secure transfers into the better mines, and that, therefore, the average capacity of the men in those mines is greater. It is at least an indication of very serious disadvantages in two of these mines that one-fifth of the men in each earn less than \$20 a month. Only an average of 5.3 per cent. of the men in the other seven mines is found in this lowest class.

In order that the actual earnings of this group, which is characterized simply as earning less than \$20, may be known, and in order to discover how far the reduced earnings are owing to short working-time, two general averages have been computed which show that these 496 men earned an average of \$16.44 each per month, and that during the months in which these earnings were made, the men worked an average of only 10.6 days. This is very nearly conclusive as to the fact that small daily earnings and short working-time have contributed about equally to the reduction of the average earnings of this group below \$20 a month. The detail by mines is as follows:

*Average earnings and working-time of those who earned less than \$20 a month.*

Mines.	Average earnings.	Average working days.	Mines.	Average earnings.	Average working days.
I.....	\$17 47	9.3	VII.....	\$16 56	12.7
II.....	18 59	10.2	VIII.....	19 10	12.5
III.....	15 51	9.9	IX.....	13 56	12.5
IV.....	17 35	9.25	X.....	15 81	14.6
VI.....	17 78	9.14	Total.....	\$16 44	10.6

A further observation of the smaller average earnings shows that 23.1 per cent. of the whole received less than \$25 a month, and that 40.4 per cent. received less than \$30 a month.

On the other hand it is found that 586 miners earned from \$45 to \$75 a month and that four earned an average of more than \$75 a month. Of the latter, one earned, in fact, an average of \$89.65 a month for five consecutive months, which is the highest average recorded. Some twelve-months' men made equal and greater amounts for a number of months, but not an average equal to this for their whole term of employment.

The average earnings of the whole number, 4,772 miners, was \$35.53 a month; of these, 1,967, or 41.6 per cent., earned more than the average, and 2,805, or 58.4 per cent., less than the average. The detail by mines of average earnings and the number of employes who have received more and less than the several averages is presented herewith:

Establishment.	Number of miners.	Average monthly earnings.	No. who earned more than the average.	No. who earned less than the average.	Per cent. more than the average.	Per cent. less than the average.
I.....	685	\$34 93	273	412	40	60
II.....	575	43 26	287	288	50	50
III.....	658	28 37	300	358	46	54
IV.....	453	43 56	157	296	35	65
VI.....	589	33 90	221	368	37	63
VII.....	940	28 54	353	587	37	63
VIII.....	457	39 61	221	236	48	52
IX.....	210	36 59	73	137	35	65
X.....	205	32 95	82	123	40	60
Total.....	4,772	\$35 53	1,967	2,805	41.6	58.4

These figures reduced to a corresponding statement for counties, which in this respect represent different coal-fields and different conditions of employment, afford the following epitome of the results of the investigation:

COUNTIES.	Number of mines.	Number of miners.	Average monthly earnings.	Number who earned more than the average.	Number who earned less than the average.	Per cent. who earned more.	Per cent. who earned less.
Bureau.....	3	1,918	\$35 89	860	1,058	44.8	55.2
LaSalle.....	2	1,042	37 97	378	664	36.3	63.7
Will.....	2	1,397	34 15	574	823	41	59
Sangamon.....	1	210	36 59	73	137	35	65
Macoupin.. ....	1	205	32 95	82	123	40	60
Total. ....	9	4,772	\$35 53	1,967	2,805	41.6	58.4

The foregoing review of the results developed by the detailed tables which constitute the body of this report, is closed with the presentation of a condensed table showing the averages deduced from the summary tables of each mine. This table contains the ultimate conclusions reached by this investigation, as to the running-time, working-time, product and earnings of the entire force of men, miners and others, employed at the mines specified, during the year, expressed in averages of the whole. This is the concrete statement of which the succeeding general tables afford the particulars as to all mines and individuals.



## EARNINGS OF COAL MINE EMPLOYÉS.

LXXI

*Condensed results of the summary tables of eleven collieries.*

## COAL MINERS, PAID BY THE TON.

ESTABLISHMENT.	Average possible running-time per month.	Average running-time of the mine per month.	Average number of men on the pay-roll per month.	Average number of days' work performed per month.	Average number of tons of coal mined per month.	Average net earnings of the average number of men employed per month.	Average earnings per man per month.	Average earnings per man per day.	Average number of tons mined per man per month.	Average number of days' work performed per man per month.	Average number of men required to produce same tonnage if at work full running-time.
	Days	Days	Men.	Days	Tons.	Amount.	Am't.	Am't.	Tons.	Days.	Men.
I .....	25.5	21.8	382	5,757	14,585	\$13,231 34	\$34 65	\$2 30	38.21	15.08	264
II .....	25.7	24.1	403	7,081	19,525	17,700 87	43 26	2 50	48.48	17.58	294
III .....	25.5	17.9	295	4,032	9,559	8,579 84	29 09	2 13	32.39	13.66	225
IV .....	25.5	17.6	322	4,392	17,502	14,113 90	43 82	3 21	54.34	13.64	251
*V .....	25.8	21.5	155	2,798	6,951	5,611 40	36 20	2 01	44.84	18.05	131
VI .....	25.5	15.6	374	4,659	15,591	12,662 93	33 90	2 72	41.74	12.47	299
VII .....	25.5	18.7	533	9,070	15,878	15,270 10	28 60	1 68	29.78	17	486
VIII .....	25.5	21.0	300	5,676	12,393	11,912 42	39 76	2 10	41.37	18.94	266
IX .....	25.5	20.1	102	1,798	5,482	3,716 75	36 59	2 07	53.97	17.7	90
X .....	25.5	19.0	134	2,417	9,326	4,411 61	32 90	1 83	69.55	18	127
*XI .....	25.5	17.9	111	1,816	8,722	3,328 20	30 12	1 83	73.93	16.4	70
Averages	25.5	19.5	283	4,500	12,319	\$10,049 03	\$35 53	\$2 23.3	43.56	15.91	230

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

I .....	25.5	21.8	173	3,261	.....	\$5,983 26	\$34 65	\$1 83	.....	18.9	.....
II .....	25.5	25.3	167	3,297	.....	6,106 45	36 68	1 85	.....	19.8	.....
III .....	25.5	17.9	94	1,651	.....	2,993 70	31 71	1 81	.....	17.5	.....
IV .....	25.5	16.9	70	1,418	.....	2,687 25	38 62	1 90	.....	20.4	.....
*V .....	28.8	21.5	56	1,230	.....	2,194 21	39 10	1 73	.....	21.9	.....
VI .....	25.5	15.6	124	2,481	.....	4,276 88	34 61	1 72	.....	20	.....
VII .....	25.5	18.7	88	1,677	.....	2,879 40	32 88	1 72	.....	19.1	.....
VIII .....	25.5	22	59	1,185	.....	2,005 54	21 23	1 69	.....	20.6	.....
IX .....	25.5	20.1	32	739	.....	1,356 75	42 18	1 84	.....	22.96	.....
X .....	25.5	19	184	3,269	.....	5,901 73	30 10	1 75	.....	17.8	.....
*XI .....	25.5	17.9	37	750	.....	1,220 04	32 97	1 63	.....	20.3	.....
Averages	25.5	19.7	99	1,905	.....	\$3,418 66	\$34.69	\$1 79.4	.....	19.33	.....
Gen. av..	25.5	19.6	382	6,405	12,319	13,467 69	35 31	2 10	.....	16.82	.....

\*Machine mine; operatives paid by the day.



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GENERAL TABLES.

EARNINGS OF COAL MINE EMPLOYEES.

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TABLE I.—Summaries of Results Shown by Monthly Pay-rolls.

## ESTABLISHMENT I.—Coal Mine in Bureau County.

CONDITIONS:—Depth of shaft, 333 feet; thickness of coal,  $3\frac{1}{4}$  feet; working places, dry; system of working, long-wall; mining done by hand; screen bars  $\frac{1}{4}$  of an inch apart; check-weighman at the scale; price of mining, 90 cents a ton for screened coal; amount of "brushing" required, 16 inches.

## COAL MINERS, PAID BY THE TON.

MONTHS.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	Whole number of men on the pay-roll during the month.	Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.	Average net earnings per man per month.	Average net earnings per man per day.	Average number of tons mined per man per day.	Average number of days' work performed per man.	Number of men required to produce same tonnage if at work full running time.
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.
1888.											
1889.											
August .....	26	27	340	5,520	13,460	\$12,810 42	\$37 68	\$2 32	2.44	16.24	204
September .....	26	25	329	5,965	9,896	9,394 98	28 56	\$2 57	2.49	12.05	159
October .....	25	24	320	5,644	15,541	14,190 63	44 35	\$2 51	2.75	17.64	235
November .....	27	26	371	7,038	18,750	16,732 74	45 10	\$2 38	2.66	18.97	271
December .....	25	13	359	2,655	6,328	6,115 37	18 04	\$2 31	2.39	7.82	204
January .....	27	27	347	7,081	18,225	16,655 30	45 12	\$2 35	2.57	20.41	262
February .....	25	25	347	6,420	17,437	15,730 88	45 33	\$2 45	2.72	18.51	279
March .....	25	22	362	5,902	15,332	13,759 34	38 01	\$2 33	2.60	16.30	268
April .....	26	15	460	4,425	10,670	9,506 21	20 67	\$2 10	2.41	9.62	256
May .....	23	22	466	7,315	17,760	15,842 78	34 00	\$2 17	2.43	15.70	332
June .....	25	18	465	6,170	14,470	12,923 46	27 79	\$2 09	2.35	13.27	343
July .....	26	20	435	6,953	17,153	15,118 34	34 51	\$2 17	2.47	16.00	347
The year .....	306	262	685	69,086	175,022	\$158,776 05	\$34 65	\$2 30	2.53	15.08	264
Monthly Avs..	25.5	21.8	382	5,757	14,585	13,231 34	34 65	\$2 30	38.21	15.08	264

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

August .....	26	27	127	2,534 $\frac{1}{4}$	.....	\$4,629 77	\$36 45	\$1 82	.....	20.	.....
September .....	26	25	122	2,374 $\frac{1}{4}$	.....	4,310 73	35 33	1 82	.....	19.5	.....
October .....	25	24	171	3,393 $\frac{1}{2}$	.....	6,233 44	36 45	1 84	.....	19.8	.....
November .....	27	26	188	4,027	.....	7,233 46	39 48	1 80	.....	21.4	.....
December .....	25	19	162	1,943	.....	3,501 61	21 61	1 80	.....	12.	.....
January .....	27	27	150	3,227	.....	5,811 87	38 75	1 80	.....	21.5	.....
February .....	25	24	159	3,333 $\frac{1}{4}$	.....	6,051 52	38 06	1 82	.....	21.	.....
March .....	25	23	156	2,841 $\frac{1}{4}$	.....	5,178 95	32 20	1 82	.....	19.2	.....
April .....	26	15	198	2,935 $\frac{1}{2}$	.....	5,427 50	27 41	1 85	.....	14.8	.....
May .....	23	22	211	4,240 $\frac{1}{4}$	.....	7,922 45	37 55	1 87	.....	20.1	.....
June .....	25	18	221	3,981 $\frac{1}{4}$	.....	7,435 68	33 92	1 88	.....	18.	.....
July .....	26	20	207	4,301 $\frac{1}{4}$	.....	8,002 13	38 65	1 88	.....	20.8	.....
The year .....	306	262	589	39,134 $\frac{1}{2}$	.....	\$71,799 11	\$34 65	\$1 83	.....	18.9	.....
Monthly Avs..	25.5	21.8	173	3,261 $\frac{1}{4}$	.....	5,983 26	34 65	1 83	.....	18.9	.....
Totals .....	306	262	*1,274	106,220 $\frac{1}{4}$	175,022	\$230,575 16	.....	.....	38.21	.....	.....
General Av..	25.5	21.8	555	9,018 $\frac{1}{4}$	14,585	19,214 60	\$34 65	\$2 13	38.21	16.3	.....

\* In addition to these, 96 transient miners worked 4,048 days during the year, mining 12,761 tons and earning \$11,634, and 287 other employés worked 1,975 days and earned \$3,779.

TABLE II.—Individual Earnings and Working Time.

## ESTABLISHMENT I.—Coal Mine in Bureau County.

Conditions of employment given at the head of preceding table.

## COAL MINERS, PAID BY THE TON.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employed appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Am't.					
Miner.....	306	262	12	222	\$731 55	\$15 84	\$715 71	\$59 64	\$3 22	73	85	\$1 96												
Miner.....	306	262	12	210	708 34	15 12	693 22	57 77	3 30	69	80	1 90												
Miner.....	306	262	12	231	667 55	15 28	652 27	54 36	2 82	75	88	1 79												
Miner.....	306	262	12	219	658 60	14 02	644 58	53 71	2 94	72	84	1 77												
Miner.....	306	262	12	205	619 27	13 45	605 82	50 49	2 96	67	78	1 66												
Miner.....	306	262	12	209	602 00	12 66	589 34	49 11	2 82	68	80	1 61												
Miner.....	306	262	12	213	596 87	13 46	583 34	48 61	2 74	70	81	1 60												
Miner.....	306	262	12	217	596 12	12 80	583 32	48 61	2 69	71	83	1 60												
Miner.....	306	262	12	223	591 42	12 44	578 98	48 25	2 60	73	85	1 59												
Miner.....	306	262	12	197	591 09	12 62	578 47	48 21	2 94	64	75	1 58												
Miner.....	306	262	12	223	591 28	13 28	578 05	48 17	2 59	73	85	1 58												
Miner.....	306	262	12	194	587 44	12 55	574 89	47 90	2 95	63	74	1 58												
Miner.....	306	262	12	230	585 91	12 77	573 14	47 76	2 49	75	88	1 57												
Miner.....	306	262	12	228	576 31	12 57	563 74	46 98	2 47	75	87	1 54												
Miner.....	306	262	12	222	575 61	12 62	562 99	46 90	2 54	73	85	1 54												
Miner.....	306	262	12	197	572 47	12 19	560 28	46 69	2 84	64	75	1 54												
Miner.....	306	262	12	220	570 30	12 37	557 93	46 49	2 51	72	84	1 53												
Miner.....	306	262	12	208	568 62	12 62	556 00	46 33	2 67	68	79	1 52												
Miner.....	306	262	12	203	565 82	12 58	553 24	46 10	2 73	66	77	1 52												
Miner.....	306	262	12	199	564 20	12 36	551 84	45 99	2 77	65	76	1 51												
Miner.....	306	262	12	193	552 74	11 69	541 05	45 09	2 80	63	74	1 48												
Miner.....	306	262	12	201	548 70	11 68	537 02	44 75	2 67	66	77	1 47												
Miner.....	306	262	12	207	547 11	11 52	535 62	44 64	2 59	68	79	1 47												
Miner.....	306	262	12	212	544 66	11 44	533 22	44 44	2 52	69	81	1 46												
Miner.....	306	262	12	209	536 54	11 36	525 18	43 77	2 51	68	80	1 44												
Miner.....	306	262	12	216	532 50	11 51	520 99	43 42	2 41	71	82	1 43												
Miner.....	306	262	12	196	528 99	10 91	518 08	43 17	2 64	64	75	1 42												
Miner.....	306	262	12	194	525 92	10 93	514 99	42 92	2 65	63	74	1 41												
Miner.....	306	262	12	215	527 63	13 72	513 91	42 83	2 39	70	82	1 41												
Miner.....	306	262	12	193	521 23	11 17	513 06	42 76	2 66	63	74	1 41												
Miner.....	306	262	12	203	524 22	11 27	512 95	42 75	2 53	66	77	1 41												
Miner.....	306	262	12	228	522 86	11 44	511 42	42 62	2 24	75	87	1 40												
Miner.....	306	262	12	202	522 57	11 35	511 22	42 60	2 53	67	77	1 40												
Miner.....	306	262	12	204	522 71	11 82	510 89	42 57	2 50	67	78	1 40												
Miner.....	306	262	12	208	521 20	11 28	509 92	42 49	2 45	68	79	1 40												
Miner.....	306	262	12	179	520 94	11 32	509 62	42 47	2 85	58	68	1 40												
Miner.....	306	262	12	211	517 04	11 25	505 79	42 15	2 40	69	81	1 39												
Miner.....	306	262	12	187	514 23	11 52	502 71	41 89	2 69	61	71	1 38												
Miner.....	306	262	12	205	512 04	11 21	500 83	41 74	2 44	67	78	1 37												
Miner.....	306	262	12	206	511 31	11 00	500 31	41 69	2 43	67	79	1 37												
Miner.....	306	262	12	212	510 11	11 08	499 03	41 59	2 35	69	81	1 37												
Miner.....	306	262	12	195	509 67	10 94	498 73	41 56	2 56	64	74	1 37												
Miner.....	306	262	12	213	506 77	10 86	495 91	41 33	2 33	70	81	1 36												
Miner.....	306	262	12	180	506 85	10 99	495 86	41 32	2 75	59	69	1 36												
Miner.....	306	262	12	210	504 27	10 86	493 41	41 12	2 35	69	80	1 35												

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employe.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employe appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.											
Miner.....	306	262	12	190	\$199 80	\$10 30	\$169 50	\$40 79	\$2 62	63	73	\$1 34												
Miner.....	306	262	12	218	500 21	10 90	489 31	40 78	2 24	71	83	1 34												
Miner.....	306	262	12	199	499 05	11 04	488 01	40 67	2 45	65	76	1 34												
Miner.....	306	262	12	168	497 12	10 80	486 32	40 53	2 89	47	64	1 33												
Miner.....	306	262	12	216	495 30	10 87	484 43	40 37	2 29	71	82	1 33												
Miner.....	306	262	12	176	495 24	11 13	484 11	40 54	2 75	58	67	1 33												
Miner.....	306	262	12	190	493 70	10 62	483 08	40 26	2 54	62	73	1 32												
Miner.....	306	262	12	196	493 37	10 57	482 80	40 23	2 46	64	75	1 32												
Miner.....	306	262	12	190	492 72	10 42	482 30	40 19	2 54	62	73	1 32												
Miner.....	306	262	12	191	491 34	10 32	481 02	40 09	2 52	62	73	1 32												
Miner.....	306	262	12	220	491 61	10 86	480 75	40 06	2 19	72	84	1 32												
Miner.....	306	262	12	197	489 65	10 54	479 11	39 93	2 43	64	75	1 31												
Miner.....	306	262	12	196	489 19	10 83	478 36	39 86	2 44	64	75	1 31												
Miner.....	306	262	12	195	485 87	10 07	475 80	39 65	2 44	64	75	1 30												
Miner.....	306	262	12	201	486 26	10 67	475 59	39 63	2 37	66	77	1 30												
Miner.....	306	262	12	189	485 84	10 45	475 39	39 62	2 52	62	72	1 30												
Miner.....	306	262	12	189	484 84	10 27	474 57	39 55	2 51	62	72	1 30												
Miner.....	306	262	12	197	481 82	10 35	471 47	39 29	2 44	64	75	1 29												
Miner.....	306	262	12	225	478 66	10 38	468 28	39 02	2 08	74	86	1 28												
Miner.....	306	262	12	188	475 07	10 44	464 63	38 72	2 47	61	72	1 27												
Miner.....	306	262	12	170	471 25	9 83	461 42	38 45	2 71	56	65	1 26												
Miner.....	306	262	12	202	469 84	10 20	459 64	38 30	2 28	66	77	1 26												
Miner.....	306	262	12	198	468 86	10 08	458 78	38 23	2 32	65	76	1 26												
Miner.....	306	262	12	212	469 16	10 66	458 50	38 22	2 16	69	81	1 26												
Miner.....	306	262	12	197	467 25	10 28	456 97	38 08	2 32	64	75	1 25												
Miner.....	306	262	12	202	466 32	9 86	456 46	38 04	2 26	66	77	1 25												
Miner.....	306	262	12	195	466 12	10 26	455 86	37 99	2 34	64	74	1 25												
Miner.....	306	262	12	198	464 55	10 16	454 39	37 87	2 29	65	76	1 24												
Miner.....	306	262	12	196	462 87	10 16	452 71	37 73	2 31	64	75	1 24												
Miner.....	306	262	12	199	462 21	10 04	452 17	37 68	2 22	65	76	1 24												
Miner.....	306	262	12	173	460 93	9 79	451 14	37 59	2 61	57	66	1 24												
Miner.....	306	262	12	192	460 42	10 17	450 25	37 52	2 35	63	73	1 23												
Miner.....	306	262	12	209	456 32	9 82	447 11	37 26	2 14	68	80	1 22												
Miner.....	306	262	12	194	455 96	9 24	446 72	37 23	2 29	63	74	1 22												
Miner.....	306	262	12	186	455 73	9 95	445 78	37 15	2 40	61	71	1 22												
Miner.....	306	262	12	205	455 43	9 73	445 70	37 14	2 17	67	78	1 22												
Miner.....	306	262	12	180	454 78	10 15	444 63	37 05	2 47	59	69	1 22												
Miner.....	306	262	12	188	453 91	9 49	443 42	37 04	2 36	61	72	1 22												
Miner.....	306	262	12	188	452 47	9 66	442 81	36 90	2 35	61	72	1 21												
Miner.....	306	262	12	206	452 48	9 99	442 49	36 87	2 15	67	75	1 21												
Miner.....	306	262	12	199	450 90	9 67	441 23	36 77	2 22	65	76	1 21												
Miner.....	306	262	12	183	450 35	10 19	440 16	36 93	2 42	60	70	1 21												
Miner.....	306	262	12	177	449 61	9 80	439 81	36 65	2 48	58	69	1 20												
Miner.....	306	262	12	200	449 58	10 29	439 29	36 61	2 20	65	76	1 20												
Miner.....	306	262	12	175	448 55	9 77	438 78	36 57	2 51	57	67	1 20												
Miner.....	306	262	12	214	445 48	9 78	435 70	36 31	2 04	70	82	1 19												
Miner.....	306	262	12	186	444 23	9 20	435 03	36 25	2 34	61	71	1 19												
Miner.....	306	262	12	207	442 84	9 75	433 09	36 09	2 09	68	79	1 19												
Miner.....	306	262	12	179	441 83	9 82	432 01	36 00	2 41	58	68	1 18												
Miner.....	306	262	12	199	442 28	10 30	431 98	36 00	2 17	65	76	1 18												

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	A'm't.	
Miner .....	306	262	12	177	\$441 01	\$9 75	\$431 26	\$35 94	\$2 44	58	68	\$1 18	
Miner .....	306	262	12	201	438 65	9 45	429 20	35 77	2 14	66	77	1 18	
Miner .....	306	262	12	198	438 62	9 39	428 63	35 72	2 16	65	76	1 17	
Miner .....	306	262	12	189	435 08	9 31	425 79	35 48	2 25	62	72	1 17	
Miner .....	306	262	12	176	434 69	9 40	425 29	35 44	2 42	58	67	1 17	
Miner .....	306	262	12	187	433 55	9 57	423 98	35 33	2 27	61	71	1 16	
Miner .....	306	262	12	197	432 88	9 45	423 43	35 29	2 15	64	75	1 16	
Miner .....	306	262	12	178	428 49	9 32	419 17	34 93	2 35	58	68	1 15	
Miner .....	306	262	12	184	428 46	9 46	419 00	34 92	2 28	60	70	1 15	
Miner .....	306	262	12	178	428 47	9 48	418 99	34 92	2 35	58	68	1 15	
Miner .....	306	262	12	164	427 48	9 07	418 41	34 87	2 55	54	63	1 15	
Miner .....	306	262	12	195	427 63	9 24	418 39	34 87	2 15	64	74	1 15	
Miner .....	306	262	12	184	425 34	8 72	416 62	34 72	2 26	60	70	1 14	
Miner .....	306	262	12	167	425 21	8 59	416 62	34 72	2 49	55	64	1 14	
Miner .....	306	262	12	179	425 69	9 08	416 51	34 71	2 33	58	68	1 14	
Miner .....	306	262	12	189	424 69	9 08	415 61	34 64	2 20	62	72	1 14	
Miner .....	306	262	12	186	425 54	9 95	415 56	34 63	2 23	61	71	1 14	
Miner .....	306	262	12	176	424 15	8 75	415 40	34 62	2 36	58	67	1 14	
Miner .....	306	262	12	188	424 17	9 57	414 60	34 55	2 21	61	72	1 14	
Miner .....	306	262	12	186	423 77	9 28	414 49	34 54	2 23	61	71	1 14	
Miner .....	306	262	12	188	423 23	9 04	414 19	34 52	2 20	61	72	1 13	
Miner .....	306	262	12	191	422 43	8 95	413 48	34 46	2 16	62	73	1 13	
Miner .....	306	262	12	216	420 02	9 07	410 95	34 26	1 90	71	82	1 13	
Miner .....	306	262	12	162	416 75	8 53	408 22	34 02	2 52	53	62	1 12	
Miner .....	306	262	12	193	415 81	9 04	406 77	33 90	2 11	63	74	1 11	
Miner .....	306	262	12	198	413 78	8 97	404 81	33 74	2 04	65	76	1 11	
Miner .....	306	262	12	185	411 79	9 09	402 70	33 56	2 18	60	71	1 10	
Miner .....	306	262	12	193	410 28	9 00	401 28	33 44	2 08	63	74	1 10	
Miner .....	306	262	12	182	409 63	9 00	400 63	33 37	2 20	59	69	1 10	
Miner .....	306	262	12	190	409 09	9 01	400 08	33 34	2 11	62	73	1 10	
Miner .....	306	262	12	198	407 02	8 68	398 34	33 20	2 01	65	76	1 09	
Miner .....	306	262	12	194	406 84	9 02	397 82	33 15	2 05	63	74	1 09	
Miner .....	306	262	12	189	405 23	8 70	396 53	33 06	2 10	62	72	1 09	
Miner .....	306	262	12	179	403 44	8 81	394 63	32 89	2 20	58	68	1 08	
Miner .....	306	262	12	185	401 14	8 42	392 72	32 64	2 12	60	71	1 08	
Miner .....	306	262	12	179	398 98	8 74	390 19	32 52	2 18	58	68	1 07	
Miner .....	306	262	12	160	396 69	8 34	388 35	32 36	2 43	52	61	1 06	
Miner .....	306	262	12	201	392 39	8 29	384 10	32 01	1 91	66	77	1 05	
Miner .....	306	262	12	166	388 52	8 19	380 38	31 70	2 29	54	63	1 04	
Miner .....	306	262	12	192	388 39	8 38	380 01	31 67	1 98	63	73	1 04	
Miner .....	306	262	12	192	385 24	8 27	376 97	31 42	1 96	63	73	1 03	
Miner .....	306	262	12	205	383 34	8 22	374 12	31 18	1 82	67	78	1 02	
Miner .....	306	262	12	139	382 04	8 61	373 43	31 12	2 69	45	53	1 02	
Miner .....	306	262	12	171	380 66	8 04	372 62	31 05	2 18	56	65	1 02	
Miner .....	306	262	12	162	378 13	8 11	370 02	30 84	2 22	53	62	1 01	
Miner .....	306	262	12	195	376 68	8 19	368 49	30 71	1 89	64	74	1 01	
Miner .....	306	262	12	163	376 11	8 12	367 99	30 67	2 26	53	62	1 01	
Miner .....	306	262	12	173	372 49	8 18	364 31	30 36	2 11	57	66	1 00	
Miner .....	306	262	12	174	369 34	7 69	361 65	30 14	2 08	57	66	1 00	
Miner .....	306	262	12	175	364 73	7 87	356 86	29 74	2 04	57	67	1 00	



Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days											
Miner.....	306	262	12	169	\$361 79	\$7 88	\$353 91	\$29 49	\$2 09	55	65	\$0 97	
Miner.....	306	262	12	154	358 14	7 96	350 18	29 18	2 27	50	59	96	
Miner.....	306	262	12	176	357 16	7 57	349 59	29 13	1 98	58	67	96	
Miner.....	306	262	12	190	355 57	7 49	348 08	29 00	1 88	62	73	95	
Miner.....	306	262	12	196	351 93	7 62	344 31	28 69	1 76	64	75	94	
Miner.....	306	262	12	160	347 42	7 56	339 86	28 32	2 12	52	61	93	
Miner.....	306	262	12	176	347 32	7 50	339 82	28 32	1 93	58	67	93	
Miner.....	306	262	12	172	345 19	7 49	337 70	28 14	1 96	56	66	93	
Miner.....	306	262	12	203	335 07	7 36	327 71	27 31	1 61	66	72	90	
Miner.....	306	262	12	159	333 25	7 06	326 19	27 18	2 05	52	61	89	
Miner.....	306	262	12	153	319 32	7 02	312 30	26 03	2 04	50	58	86	
Miner.....	306	262	12	152	315 38	6 99	308 39	25 70	2 03	50	58	84	
Miner.....	306	262	12	172	297 34	7 10	290 24	24 19	1 69	56	66	80	
Miner.....	306	262	12	151	295 74	6 17	289 57	24 13	1 92	49	58	79	
Miner.....	306	262	12	150	292 82	5 86	286 96	23 91	1 91	49	57	79	
Miner.....	281	249	11	213	602 30	12 45	589 85	53 62	2 77	76	86	1 76	
Miner.....	280	242	11	190	542 90	11 55	531 35	49 21	2 50	68	79	1 59	
Miner.....	280	242	11	197	503 49	10 27	493 22	44 84	2 50	70	81	1 47	
Miner.....	280	242	11	189	498 63	10 94	487 69	44 34	2 58	68	78	1 46	
Miner.....	280	235	11	189	492 01	10 36	481 65	43 79	2 55	68	80	1 44	
Miner.....	280	242	11	168	458 49	10 29	448 20	40 75	2 67	60	69	1 34	
Miner.....	280	242	11	201	457 75	9 91	447 84	40 71	2 23	72	83	1 34	
Miner.....	280	242	11	190	449 92	9 22	440 70	40 06	2 32	68	79	1 32	
Miner.....	281	249	11	178	446 77	9 30	437 47	39 77	2 46	63	71	1 31	
Miner.....	280	242	11	151	441 86	9 38	432 48	39 32	2 86	54	62	1 29	
Miner.....	280	235	11	175	436 73	9 42	427 31	38 85	2 44	63	71	1 28	
Miner.....	283	240	11	152	427 49	9 30	418 19	38 02	2 75	55	63	1 28	
Miner.....	280	242	11	164	426 73	9 46	417 27	37 93	2 54	59	68	1 25	
Miner.....	280	235	11	174	424 87	8 86	416 01	37 32	2 39	62	74	1 25	
Miner.....	280	235	11	183	420 78	9 10	411 68	37 43	2 25	65	76	1 23	
Miner.....	280	235	11	185	418 93	9 21	409 72	37 25	2 21	69	76	1 22	
Miner.....	280	242	11	152	412 52	9 14	403 38	36 67	2 65	54	65	1 21	
Miner.....	281	249	11	175	411 81	9 44	402 37	36 58	2 36	62	70	1 20	
Miner.....	280	242	11	185	405 91	8 46	397 45	36 13	2 15	66	76	1 19	
Miner.....	280	242	11	173	395 98	8 72	387 26	35 21	2 24	62	71	1 16	
Miner.....	280	242	11	153	394 96	8 07	386 89	35 17	2 53	55	63	1 15	
Miner.....	281	249	11	171	394 62	8 65	385 97	35 09	2 26	61	69	1 15	
Miner.....	280	242	11	167	375 82	8 03	367 79	33 44	2 20	60	69	1 10	
Miner.....	280	247	11	144	367 07	8 15	358 92	32 63	2 49	51	58	1 07	
Miner.....	280	235	11	179	357 63	7 54	350 09	31 33	1 96	64	76	1 05	
Miner.....	281	249	11	144	351 25	6 55	344 70	31 34	2 39	51	58	1 03	
Miner.....	280	242	11	133	349 96	7 35	342 61	31 15	2 58	48	55	1 02	
Miner.....	281	249	11	185	349 00	7 69	341 31	31 03	1 84	66	74	1 02	
Miner.....	280	242	11	160	343 56	7 50	336 06	30 55	2 10	57	66	1 00	
Miner.....	280	235	11	152	343 46	7 44	336 02	30 55	2 21	54	65	1 01	
Miner.....	281	249	11	178	337 12	7 34	329 78	29 97	1 85	63	71	98	
Miner.....	279	235	11	171	330 34	7 28	323 06	29 37	1 89	61	73	97	
Miner.....	279	236	11	148	326 47	6 90	319 57	29 05	2 37	53	63	96	
Miner.....	280	237	11	145	324 72	7 20	317 52	28 62	2 19	52	61	95	
Miner.....	281	239	11	116	232 67	5 07	227 60	20 69	1 96	41	49	68	

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	280	242	11	125	\$225 67	\$4 82	\$220 85	\$20 08	\$1 77	45	52	\$0 66
Miner .....	281	238	11	116	209 49	4 53	204 96	18 63	1 77	41	49	61
Miner .....	254	215	10	174	493 70	10 28	483 42	48 34	2 78	89	80	1 59
Miner .....	255	224	10	169	474 19	10 24	463 95	46 40	2 75	66	75	1 53
Miner .....	254	210	10	146	448 40	9 24	439 16	43 92	3 01	57	70	1 44
Miner .....	255	224	10	170	443 64	9 76	433 88	43 39	2 55	67	76	1 43
Miner .....	255	224	10	172	432 90	9 40	423 50	42 35	2 46	67	77	1 39
Miner .....	254	212	10	171	430 40	9 20	421 20	42 12	2 46	67	81	1 39
Miner .....	254	210	10	169	428 79	9 12	419 67	41 97	2 48	67	80	1 38
Miner .....	254	210	10	163	422 43	9 38	413 05	41 31	2 53	64	78	1 36
Miner .....	255	224	10	163	404 96	8 12	396 84	39 68	2 43	64	73	1 31
Miner .....	254	210	10	160	388 85	8 40	380 45	38 05	2 38	63	76	1 25
Miner .....	254	210	10	146	386 79	8 32	378 47	37 85	2 59	57	70	1 24
Miner .....	255	224	10	132	383 82	8 32	375 50	37 55	2 85	52	59	1 24
Miner .....	254	210	10	151	343 66	7 36	336 30	33 63	2 23	59	72	1 11
Miner .....	257	220	10	140	302 36	6 10	296 26	29 63	2 12	55	64	97
Miner .....	255	224	10	131	289 78	6 44	283 34	28 33	2 16	51	58	93
Miner .....	255	224	10	139	266 99	5 74	261 25	26 13	1 88	55	62	86
Miner .....	254	222	10	130	248 49	5 35	243 14	24 31	1 87	51	59	80
Miner .....	255	224	10	84	167 39	3 58	163 81	16 38	1 95	33	38	54
Miner .....	232	202	9	169	511 35	10 94	500 41	55 60	2 96	73	84	1 81
Miner .....	229	186	9	134	452 08	9 74	442 34	49 15	3 30	59	72	1 62
Miner .....	232	202	9	166	441 06	9 76	431 30	47 92	2 60	72	82	1 56
Miner .....	232	202	9	168	431 23	9 30	421 93	46 88	2 51	72	83	1 53
Miner .....	232	202	9	158	429 89	9 26	420 63	46 74	2 66	68	78	1 52
Miner .....	232	202	9	149	421 02	8 89	412 13	45 79	2 77	64	74	1 49
Miner .....	232	202	9	152	420 85	9 07	411 78	45 75	2 71	66	75	1 49
Miner .....	229	186	9	174	409 66	8 90	400 76	44 53	2 30	76	94	1 47
Miner .....	232	202	9	170	402 29	8 63	393 66	43 74	2 32	73	84	1 43
Miner .....	232	202	9	164	399 95	9 31	390 64	43 40	2 38	71	81	1 42
Miner .....	229	186	9	140	395 79	8 62	387 17	43 02	2 77	61	75	1 42
Miner .....	229	186	9	150	384 19	8 28	375 91	41 77	2 51	66	81	1 38
Miner .....	232	202	9	162	369 79	7 61	362 18	40 24	2 24	70	80	1 31
Miner .....	232	202	9	158	367 29	8 17	359 12	39 90	2 27	68	78	1 30
Miner .....	239	190	9	138	364 41	7 76	356 65	39 63	2 58	58	73	1 27
Miner .....	232	202	9	161	350 25	8 26	341 99	37 89	2 12	69	80	1 24
Miner .....	232	202	9	152	343 95	7 23	336 72	37 08	2 21	66	75	1 22
Miner .....	232	202	9	145	342 89	7 62	335 27	37 25	2 31	63	72	1 21
Miner .....	229	186	9	139	341 57	7 34	334 23	37 14	2 42	61	75	1 22
Miner .....	229	186	9	158	334 83	7 34	327 49	36 39	2 07	69	85	1 20
Miner .....	232	202	9	160	334 20	7 22	326 98	36 33	2 04	69	79	1 18
Miner .....	229	186	9	143	333 49	7 36	326 13	36 24	2 28	62	77	1 19
Miner .....	229	186	9	142	326 62	7 20	319 42	35 49	2 25	62	77	1 17
Miner .....	229	186	9	144	324 30	7 10	317 20	35 25	2 20	63	77	1 16
Miner .....	229	186	9	128	322 03	6 94	315 09	35 01	2 46	56	69	1 15
Miner .....	229	186	9	132	320 03	6 94	313 09	34 79	2 37	58	71	1 15
Miner .....	229	186	9	157	318 24	6 98	311 26	34 58	1 98	69	84	1 14
Miner .....	229	186	9	142	313 04	6 86	306 18	34 02	2 16	62	76	1 12
Miner .....	229	186	9	146	312 56	6 84	305 69	33 97	2 09	64	78	1 12
Miner .....	232	202	9	143	311 07	6 07	305 00	33 89	2 13	62	71	1 11

Table II.—Continued.

OCCUPATION.	Possible working time omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	229	186	9	148	\$307 32	\$6 76	\$300 56	\$33 39	\$2 03	65	80	\$1 10
Miner.....	229	186	9	155	306 15	6 74	299 41	33 27	1 93	68	83	1 10
Miner.....	229	186	9	127	287 90	6 04	281 86	31 32	2 22	55	63	1 03
Miner.....	229	186	9	135	286 29	6 36	279 95	31 10	2 07	59	73	1 08
Miner.....	232	202	9	114	285 14	6 14	279 00	31 00	2 46	49	56	1 01
Miner.....	229	186	9	131	280 12	5 82	274 30	30 48	2 09	57	70	1 00
Miner.....	229	202	9	127	279 97	5 83	274 14	30 46	2 18	55	63	99
Miner.....	232	202	9	134	269 84	5 74	264 10	29 35	1 97	58	66	96
Miner.....	229	186	9	114	265 98	5 50	260 48	28 94	2 29	50	61	95
Miner.....	232	202	9	112	261 81	5 55	256 26	28 47	2 29	48	55	93
Miner.....	229	186	9	113	251 93	5 42	246 51	27 39	2 18	49	61	90
Miner.....	232	202	9	131	248 48	5 52	242 96	27 00	1 85	57	65	88
Miner.....	229	186	9	132	247 84	5 48	242 36	26 93	1 84	58	71	89
Miner.....	229	186	9	124	247 43	5 42	242 01	26 89	1 95	54	67	89
Miner.....	229	186	9	130	243 57	5 44	238 13	26 46	1 83	57	70	87
Miner.....	232	203	9	106	219 14	4 68	214 46	23 83	2 02	46	52	78
Miner.....	232	202	9	123	214 56	4 66	209 90	23 32	1 71	53	61	76
Miner.....	239	190	9	85	197 31	4 55	192 76	21 42	2 27	36	45	70
Miner.....	229	186	9	111	193 71	4 28	189 43	21 05	1 81	48	60	69
Miner.....	239	190	9	97	185 91	4 07	181 84	20 20	1 87	41	51	66
Miner.....	232	202	9	109	182 99	3 74	179 25	19 92	1 64	47	54	65
Miner.....	229	214	9	87	153 14	3 22	149 92	16 66	1 72	38	41	55
Miner.....	206	175	8	139	397 76	8 72	389 04	48 64	2 80	67	79	1 59
Miner.....	206	187	8	145	364 76	9 01	355 75	44 47	2 45	70	78	1 45
Miner.....	206	187	8	156	348 81	7 41	341 40	42 68	2 18	76	83	1 39
Miner.....	206	187	8	123	339 34	7 07	332 27	41 53	2 70	60	66	1 36
Miner.....	206	175	8	139	335 38	4 26	328 12	41 02	2 36	67	79	1 34
Miner.....	203	166	8	131	331 96	7 22	324 74	40 59	2 48	65	79	1 34
Miner.....	206	187	8	142	323 57	6 94	316 63	38 52	2 23	69	76	1 29
Miner.....	206	187	8	131	317 43	6 58	310 85	38 86	2 37	64	70	1 27
Miner.....	206	187	8	131	314 95	6 69	308 26	38 53	2 35	64	70	1 26
Miner.....	202	160	8	132	314 29	6 90	307 39	38 42	2 33	65	82	1 27
Miner.....	202	160	8	129	312 97	6 96	306 01	38 25	2 37	64	81	1 28
Miner.....	206	187	8	128	309 73	6 55	303 18	37 90	2 37	62	64	1 24
Miner.....	206	187	8	92	271 22	5 08	266 14	33 27	2 89	45	49	1 09
Miner.....	202	160	8	120	271 42	5 90	265 52	33 19	2 21	59	75	1 10
Miner.....	207	178	8	114	258 42	5 51	252 91	31 61	2 22	55	64	1 03
Miner.....	207	189	8	102	241 47	4 88	236 59	29 57	2 32	49	54	96
Miner.....	203	166	8	111	235 87	5 20	230 67	28 83	2 08	55	67	95
Miner.....	206	187	8	113	230 41	4 88	225 53	28 69	2 00	55	60	92
Miner.....	203	174	8	115	224 79	4 86	219 93	27 48	1 91	57	66	91
Miner.....	202	160	8	97	222 85	4 72	218 13	27 27	2 24	48	61	90
Miner.....	204	177	8	76	139 87	2 93	136 94	17 12	1 90	37	43	56
Miner.....	177	147	7	129	484 60	10 76	473 84	67 69	3 67	73	88	2 24
Miner.....	180	163	7	116	358 92	7 36	351 56	50 22	3 03	64	71	1 64
Miner.....	176	140	7	115	343 75	7 52	336 23	48 03	2 92	65	82	1 59
Miner.....	176	140	7	116	299 91	6 54	293 37	41 91	2 53	66	83	1 58
Miner.....	177	154	7	112	299 44	6 84	282 60	41 80	2 61	63	73	1 37
Miner.....	181	165	7	112	286 02	5 96	280 06	41 69	2 58	62	68	1 36
Miner.....	180	150	7	109	291 33	6 32	285 01	40 72	2 61	61	73	1 33

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employes appears on the pay-roll.	Actual working time of employe.	Gross earnings of employe for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employe for the time he appears on the pay-roll.	Average monthly receipts for the months employe appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employe appears on the pay roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	177	147	7	136	\$290 96	\$6 42	\$284 54	\$40 65	\$2 09	77	93	\$1 34
Miner.....	181	165	7	81	270 25	5 86	264 39	37 77	3 26	45	49	1 24
Miner.....	180	150	7	108	262 00	5 66	256 34	36 62	3 37	60	72	1 19
Miner.....	181	165	7	105	254 91	5 51	249 40	35 67	3 38	58	64	1 17
Miner.....	177	147	7	116	250 77	5 52	245 25	35 04	3 11	66	79	1 16
Miner.....	177	147	7	104	247 39	5 22	242 17	34 60	2 33	59	71	1 14
Miner.....	177	147	7	107	246 56	5 50	241 06	34 44	2 25	60	73	1 14
Miner.....	177	147	7	113	244 85	5 38	239 47	34 21	2 12	64	77	1 13
Miner.....	177	147	7	118	229 94	5 10	224 84	32 12	1 90	67	80	1 06
Miner.....	181	165	7	100	228 46	4 54	223 92	31 99	2 24	55	67	1 05
Miner.....	179	151	7	94	223 49	4 77	218 72	31 35	2 32	53	62	1 02
Miner.....	176	140	7	97	212 57	4 48	208 09	29 73	2 15	55	69	98
Miner.....	181	165	7	102	210 10	4 00	206 10	29 44	2 02	56	62	96
Miner.....	177	111	7	93	198 24	4 09	194 15	27 78	2 09	53	84	92
Miner.....	178	148	7	96	194 35	4 26	190 09	27 16	1 98	54	65	90
Miner.....	181	165	7	101	194 03	4 06	189 97	27 14	1 88	56	61	89
Miner.....	177	147	7	95	187 38	4 16	183 22	26 17	1 93	54	65	86
Miner.....	178	148	7	93	179 74	3 94	175 80	25 11	1 89	52	63	83
Miner.....	182	157	7	73	175 94	3 58	172 36	24 62	2 36	40	46	80
Miner.....	179	153	7	81	175 49	3 67	171 82	24 55	2 12	45	53	81
Miner.....	180	150	7	93	167 05	3 68	163 37	23 34	1 76	52	62	76
Miner.....	155	126	6	112	351 63	7 80	343 83	57 30	3 07	72	89	1 87
Miner.....	156	142	6	99	301 96	6 33	295 63	49 27	2 99	63	70	1 61
Miner.....	151	127	6	102	282 84	6 16	276 68	46 11	2 71	67	80	1 52
Miner.....	150	120	6	111	280 85	5 58	275 27	45 88	2 48	74	93	1 52
Miner.....	155	126	6	100	272 67	5 82	266 85	44 71	2 67	64	79	1 45
Miner.....	156	142	6	109	262 75	5 73	257 02	42 84	2 36	70	77	1 40
Miner.....	155	126	6	116	262 72	5 84	256 88	42 81	2 21	75	92	1 40
Miner.....	155	126	6	112	258 20	5 70	252 50	42 08	2 25	72	89	1 37
Miner.....	156	142	6	96	222 48	4 52	217 96	36 33	2 27	62	68	1 18
Miner.....	156	142	6	90	220 02	4 23	215 79	35 96	2 40	58	63	1 17
Miner.....	151	122	6	97	220 68	4 90	215 78	35 96	2 22	64	80	1 19
Miner.....	151	127	6	89	219 10	4 84	214 26	35 71	2 41	59	70	1 18
Miner.....	150	120	6	88	215 74	4 80	210 94	35 16	2 41	59	73	1 17
Miner.....	151	126	6	89	204 41	4 52	199 89	33 32	2 25	57	71	1 09
Miner.....	155	126	6	92	202 96	4 24	198 72	33 12	2 16	59	73	1 08
Miner.....	155	126	6	93	199 31	4 34	194 97	32 50	2 10	60	74	1 06
Miner.....	156	142	6	95	192 95	4 22	188 73	31 46	1 99	63	79	1 04
Miner.....	156	142	6	87	192 15	4 45	187 70	31 28	2 16	56	61	1 02
Miner.....	156	142	6	86	189 80	4 06	185 74	30 96	2 16	55	61	1 01
Miner.....	156	142	6	84	185 75	4 08	181 67	30 28	2 16	54	59	99
Miner.....	154	135	6	77	185 28	4 00	181 28	30 21	2 35	50	57	99
Miner.....	155	126	6	96	184 80	3 84	180 96	30 16	1 88	62	76	98
Miner.....	150	120	6	109	182 10	3 98	178 12	29 69	1 63	73	91	98
Miner.....	150	120	6	77	180 64	3 90	176 74	29 46	2 30	51	64	98
Miner.....	150	120	6	92	174 51	3 76	170 75	28 46	1 86	61	77	94
Miner.....	150	120	6	99	173 92	3 80	170 06	28 34	1 72	66	83	94
Miner.....	150	120	6	95	170 46	3 76	166 70	27 78	1 75	63	79	92
Miner.....	150	120	6	102	168 41	3 72	164 69	27 65	1 61	68	85	91
Miner.....	150	120	6	88	162 78	3 56	159 22	26 54	1 81	59	73	88

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	155	126	6	70	\$156 36	\$2 92	\$153 44	\$25 57	\$2 19	45	56	\$0 83	
Miner .....	150	120	6	67	144 05	3 05	141 00	23 50	2 10	45	56	78	
Miner .....	151	122	6	53	139 22	2 62	136 60	22 77	2 35	49	75		
Miner .....	150	120	6	61	131 99	2 92	129 07	21 51	2 12	41	51	71	
Miner .....	150	120	6	73	129 06	2 76	126 30	21 05	1 73	49	61	70	
Miner .....	150	120	6	81	128 36	2 86	125 50	20 92	1 55	54	68	68	
Miner .....	150	120	6	68	109 67	2 38	107 29	17 88	1 58	45	57	59	
Miner .....	152	115	6	42	84 11	1 88	82 23	13 71	1 06	28	37	45	
Miner .....	150	120	6	45	80 40	1 70	78 70	13 12	1 75	30	38	44	
Miner .....	125	97	5	85	231 48	5 14	226 34	45 27	2 66	68	88	1 50	
Miner .....	131	129	5	87	211 66	5 36	206 30	41 26	2 37	66	67	1 34	
Miner .....	125	97	5	73	198 09	4 40	193 69	38 74	2 65	58	75	1 28	
Miner .....	129	115	5	76	194 70	4 24	190 46	38 09	2 51	59	66	1 24	
Miner .....	129	124	5	66	186 25	3 85	182 40	36 48	2 76	51	53	1 18	
Miner .....	129	115	5	68	176 84	3 92	172 92	34 58	2 54	53	59	1 13	
Miner .....	129	115	5	67	171 09	3 49	167 60	33 52	2 50	52	58	1 10	
Miner .....	125	97	5	76	171 26	3 74	167 52	33 50	2 20	61	78	1 11	
Miner .....	124	100	5	74	167 99	3 68	164 31	32 86	2 22	60	74	1 09	
Miner .....	125	97	5	80	158 78	3 40	155 38	31 08	1 94	64	82	1 03	
Miner .....	125	97	5	65	154 54	3 22	151 32	30 26	2 33	52	67	1 00	
Miner .....	129	115	5	67	150 96	3 35	147 61	29 52	2 20	52	58	96	
Miner .....	130	117	5	69	150 38	3 28	147 10	29 42	2 13	53	59	96	
Miner .....	129	115	5	66	148 90	3 51	145 39	29 08	2 20	51	57	95	
Miner .....	131	129	5	59	144 40	3 10	141 30	28 26	2 40	45	46	92	
Miner .....	127	101	5	72	143 50	3 18	140 32	28 06	1 95	57	71	93	
Miner .....	129	115	5	66	136 90	3 03	133 87	26 75	2 03	51	57	87	
Miner .....	129	115	5	75	136 13	2 87	133 26	26 65	1 78	58	65	87	
Miner .....	129	111	5	60	128 35	2 76	125 59	25 12	2 09	47	54	82	
Miner .....	129	115	5	60	128 45	2 86	125 59	25 12	2 09	47	52	82	
Miner .....	125	97	5	66	128 30	2 72	125 58	25 12	1 90	53	68	83	
Miner .....	129	115	5	68	128 41	3 03	125 38	25 08	1 85	53	59	82	
Miner .....	125	97	5	59	124 10	2 76	121 34	24 27	2 06	47	61	80	
Miner .....	125	97	5	56	122 03	2 72	119 31	23 86	2 13	45	58	79	
Miner .....	125	97	5	51	121 76	2 70	119 06	23 81	2 33	41	53	79	
Miner .....	130	117	5	63	115 78	2 58	113 20	22 64	1 80	48	54	74	
Miner .....	125	97	5	58	104 59	2 34	102 25	20 45	1 76	46	60	68	
Miner .....	131	129	5	63	98 86	2 13	96 73	19 35	1 54	48	49	63	
Miner .....	129	124	5	39	73 75	1 57	72 18	14 44	1 85	30	31	47	
Miner .....	104	102	4	77	250 76	6 22	244 54	61 14	3 18	74	75	1 99	
Miner .....	100	75	4	58	235 21	5 22	229 99	57 50	3 97	58	77	1 91	
Miner .....	100	75	4	56	205 89	4 40	201 49	50 37	3 60	56	75	1 68	
Miner .....	104	102	4	75	200 32	4 93	195 39	48 85	2 61	72	74	1 59	
Miner .....	100	75	4	63	183 28	4 08	179 20	44 80	2 84	63	81	1 49	
Miner .....	100	75	4	51	183 28	4 08	179 20	44 80	3 51	51	68	1 49	
Miner .....	104	102	4	81	179 60	3 91	175 69	43 92	2 17	77	79	1 43	
Miner .....	102	85	4	68	172 52	3 52	169 00	42 25	2 49	67	80	1 39	
Miner .....	100	75	4	52	164 12	3 54	160 58	40 15	3 09	52	69	1 34	
Miner .....	100	75	4	63	155 68	3 30	152 38	38 10	2 42	63	84	1 27	
Miner .....	104	102	4	53	154 90	3 19	151 71	37 53	2 86	51	52	1 23	
Miner .....	102	85	4	53	153 96	3 43	150 53	37 63	2 84	52	62	1 23	

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	104	102	4	76	\$151 58	\$3 37	\$148 21	\$37 05	\$1 95	73	7	\$1 20	
Miner .....	100	75	4	54	151 52	3 38	148 14	37 04	2 74	54	72	1 23	
Miner .....	100	75	4	63	151 29	3 36	147 93	36 98	2 36	63	84	1 23	
Miner .....	104	102	4	74	149 45	3 27	146 18	36 55	1 98	71	73	1 19	
Miner .....	100	75	4	63	147 02	3 26	143 76	35 44	2 28	63	84	1 20	
Miner .....	104	102	4	70	146 92	3 28	143 64	35 91	2 05	67	69	1 17	
Miner .....	100	75	4	61	145 80	3 26	142 54	35 64	2 34	61	81	1 19	
Miner .....	100	75	4	60	143 77	3 20	140 57	35 14	2 34	60	80	1 17	
Miner .....	104	102	4	61	143 52	3 23	140 29	35 07	2 30	59	60	1 14	
Miner .....	100	75	4	63	142 47	3 14	139 33	34 83	2 21	63	84	1 16	
Miner .....	100	75	4	53	142 05	2 98	139 07	34 77	2 62	53	71	1 16	
Miner .....	100	75	4	62	140 09	3 10	136 99	34 25	2 21	62	83	1 14	
Miner .....	100	75	4	57	137 88	3 06	134 82	33 70	2 37	57	76	1 12	
Miner .....	100	75	4	54	136 62	3 04	133 58	33 40	2 47	54	72	1 11	
Miner .....	100	75	4	54	136 20	2 96	133 24	33 31	2 47	54	72	1 11	
Miner .....	100	75	4	44	135 13	2 88	133 25	33 04	3 01	44	59	1 10	
Miner .....	100	75	4	55	134 12	2 84	131 28	32 82	2 39	55	73	1 09	
Miner .....	99	77	4	56	133 58	2 72	130 86	32 72	2 34	57	73	1 08	
Miner .....	100	75	4	58	132 49	2 88	129 61	32 40	2 23	58	77	1 08	
Miner .....	100	75	4	60	132 53	2 94	129 59	32 40	2 16	60	80	1 08	
Miner .....	100	75	4	59	132 28	2 80	129 48	32 37	2 20	59	79	1 08	
Miner .....	100	75	4	49	131 54	2 91	128 60	32 15	2 62	49	66	1 07	
Miner .....	100	75	4	56	130 73	2 90	127 83	31 96	2 28	56	75	1 07	
Miner .....	100	75	4	57	130 02	2 80	127 22	31 80	2 23	57	76	1 06	
Miner .....	100	75	4	57	129 92	2 88	127 04	31 76	2 23	57	76	1 06	
Miner .....	100	75	4	59	128 19	2 70	125 49	31 37	2 13	59	79	1 05	
Miner .....	100	75	4	53	127 23	2 78	124 45	31 11	2 35	53	71	1 04	
Miner .....	100	75	4	62	127 07	2 82	124 25	31 06	2 00	62	83	1 04	
Miner .....	109	75	4	57	126 86	2 80	124 06	31 02	2 18	57	76	1 03	
Miner .....	100	75	4	50	126 74	2 80	123 94	30 98	2 48	50	67	1 03	
Miner .....	100	75	4	56	126 41	2 80	123 61	30 90	2 21	56	75	1 03	
Miner .....	100	75	4	56	125 66	2 76	122 90	30 72	2 19	56	75	1 02	
Miner .....	100	75	4	66	122 76	2 66	120 10	30 02	1 82	66	88	1 00	
Miner .....	100	75	4	49	121 96	2 60	119 36	29 84	2 44	49	66	99	
Miner .....	100	75	4	61	122 00	2 70	119 30	29 83	1 96	61	81	99	
Miner .....	100	75	4	57	121 81	2 72	119 08	29 77	2 08	57	76	99	
Miner .....	100	75	4	61	120 77	2 62	118 15	29 54	1 94	61	81	98	
Miner .....	100	75	4	51	120 20	2 28	117 92	29 48	2 30	51	68	98	
Miner .....	100	75	4	51	120 06	2 68	117 38	29 35	2 30	51	68	98	
Miner .....	100	75	4	50	119 75	2 68	117 07	29 27	2 34	50	67	98	
Miner .....	100	75	4	53	119 54	2 60	116 94	29 24	2 21	53	71	97	
Miner .....	104	102	4	62	119 12	2 65	116 47	29 12	1 88	60	61	95	
Miner .....	100	75	4	55	118 98	2 64	116 34	29 09	2 12	55	73	97	
Miner .....	100	75	4	50	117 08	2 52	114 56	28 64	2 29	50	67	95	
Miner .....	100	75	4	47	117 10	2 60	114 50	28 63	2 44	47	63	95	
Miner .....	100	75	4	61	116 87	2 60	114 27	28 57	1 87	61	81	95	
Miner .....	100	75	4	60	114 18	2 40	111 78	27 95	1 86	60	80	93	
Miner .....	100	75	4	56	114 07	2 54	111 53	27 88	1 99	56	75	93	
Miner .....	100	75	4	49	113 76	2 52	111 24	27 81	2 27	49	66	93	
Miner .....	104	102	4	61	112 99	2 39	110 60	27 65	1 81	59	60	90	

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	100	75	4	51	\$111 46	\$2 50	\$108 96	\$27 24	\$2 14	51	68	\$0 91	
Miner .....	100	75	4	53	110 30	2 46	107 84	26 96	2 03	53	71	90	
Miner .....	100	75	4	55	110 15	2 44	107 71	26 93	1 95	55	73	90	
Miner .....	100	75	4	58	109 97	2 40	107 57	26 89	1 85	58	77	90	
Miner .....	100	75	4	52	109 85	2 46	107 39	26 85	2 07	52	69	89	
Miner .....	100	75	4	58	109 30	2 42	106 88	26 72	1 84	58	77	89	
Miner .....	100	75	4	47	108 37	2 42	105 95	26 49	2 25	47	63	88	
Miner .....	100	75	4	65	108 36	2 42	105 94	26 49	1 63	65	87	88	
Miner .....	104	102	4	57	107 24	2 38	104 86	26 22	1 84	55	56	85	
Miner .....	100	75	4	59	106 78	2 38	104 40	26 10	1 77	59	79	87	
Miner .....	100	75	4	44	105 74	2 36	103 38	25 85	2 35	44	59	86	
Miner .....	100	75	4	45	103 57	2 26	101 31	25 33	2 25	45	60	84	
Miner .....	100	75	4	51	102 64	2 28	100 36	25 09	1 97	51	68	84	
Miner .....	100	75	4	45	102 05	2 24	99 81	24 95	2 22	45	60	83	
Miner .....	100	75	4	53	101 79	2 26	99 53	24 88	1 88	53	71	83	
Miner .....	100	75	4	49	101 74	2 26	99 48	24 90	2 03	49	66	83	
Miner .....	100	75	4	54	98 41	2 20	96 21	24 05	1 78	54	72	80	
Miner .....	100	75	4	47	96 66	2 16	94 50	23 63	2 01	47	63	79	
Miner .....	100	75	4	52	95 45	2 12	93 33	23 33	1 79	52	69	78	
Miner .....	100	75	4	51	95 09	2 10	92 99	23 25	1 82	51	68	77	
Miner .....	100	75	4	35	94 75	2 04	92 71	23 18	2 65	35	47	77	
Miner .....	100	75	4	47	94 32	2 10	92 22	23 06	1 96	47	63	77	
Miner .....	100	75	4	43	93 65	1 96	91 69	22 92	2 13	43	57	76	
Miner .....	100	75	4	49	93 25	2 06	91 19	22 80	1 90	48	64	76	
Miner .....	100	75	4	47	91 97	2 02	89 95	22 49	1 91	47	63	75	
Miner .....	103	82	4	36	90 56	1 98	88 58	22 15	2 46	35	44	73	
Miner .....	100	75	4	45	88 74	1 98	86 76	21 69	1 93	45	60	73	
Miner .....	100	75	4	48	87 85	1 84	86 01	21 50	1 79	48	64	72	
Miner .....	100	75	4	50	86 96	1 88	85 08	21 27	1 70	50	67	71	
Miner .....	100	75	4	37	85 81	1 90	83 91	20 98	2 27	37	49	70	
Miner .....	100	75	4	34	85 32	1 86	83 46	20 87	2 45	34	45	70	
Miner .....	100	75	4	52	85 06	1 88	83 18	20 80	1 60	52	69	69	
Miner .....	104	102	4	56	85 27	2 35	82 92	20 73	2 30	55	35	67	
Miner .....	100	75	4	56	84 59	1 86	82 73	20 68	1 46	56	75	69	
Miner .....	100	75	4	41	83 44	1 86	81 58	20 40	1 99	41	55	68	
Miner .....	100	75	4	41	81 71	1 82	79 89	19 97	1 95	41	55	67	
Miner .....	100	75	4	39	81 67	1 78	79 89	19 97	2 05	39	52	67	
Miner .....	100	75	4	37	79 78	1 78	78 00	19 50	2 11	37	49	65	
Miner .....	100	75	4	46	79 46	1 70	77 76	19 44	1 69	46	61	65	
Miner .....	100	75	4	48	76 81	1 70	75 11	18 78	1 56	48	64	63	
Miner .....	103	76	4	30	75 98	1 54	74 44	18 61	2 48	29	66	61	
Miner .....	100	75	4	38	69 35	1 48	67 87	16 97	1 78	38	51	57	
Miner .....	100	75	4	35	68 97	1 48	67 49	16 90	1 93	35	47	55	
Miner .....	106	75	4	38	67 81	1 50	66 31	16 58	1 75	38	51	55	
Miner .....	100	75	4	42	67 78	1 50	66 28	16 57	1 58	42	56	55	
Miner .....	100	75	4	34	63 62	1 44	62 18	15 55	1 83	34	45	52	
Miner .....	100	75	4	66	55 88	1 08	54 80	13 70	83	66	88	46	
Miner .....	100	75	4	66	55 88	1 08	54 80	13 70	83	66	88	46	
Miner .....	100	75	4	66	55 88	1 08	54 80	13 70	83	66	88	46	
Miner .....	100	75	4	66	55 88	1 08	54 80	13 70	83	66	88	46	

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	77	72	3	54	\$149 04	\$3 32	\$145 82	\$48 61	\$2 70	70	75	\$1 59
Miner.....	74	60	3	55	144 19	3 22	140 97	46 99	2 56	74	92	1 58
Miner.....	74	60	3	59	140 89	3 02	137 87	44 96	2 34	80	98	1 55
Miner.....	77	76	3	47	141 40	2 66	138 74	46 25	2 95	61	62	1 51
Miner.....	77	72	3	57	137 36	3 04	134 32	44 77	2 36	74	79	1 46
Miner.....	74	60	3	55	134 16	2 92	131 24	43 75	2 39	74	92	1 47
Miner.....	74	60	3	56	133 70	2 98	130 72	43 57	2 33	76	93	1 47
Miner.....	78	75	3	48	132 54	2 58	129 96	43 32	2 71	62	64	1 41
Miner.....	74	60	3	51	132 71	2 96	129 75	43 25	2 54	69	85	1 46
Miner.....	74	60	3	54	129 03	2 66	126 37	42 12	2 34	73	90	1 42
Miner.....	74	60	3	55	129 21	2 84	126 37	42 12	2 30	74	92	1 42
Miner.....	74	60	3	50	127 97	2 86	125 11	41 70	2 60	68	83	1 41
Miner.....	77	72	3	48	122 22	2 60	119 62	39 87	2 49	62	67	1 30
Miner.....	74	60	3	56	121 36	2 68	118 68	39 56	2 12	76	93	1 33
Miner.....	74	60	3	50	121 00	2 68	118 32	39 44	2 37	68	83	1 33
Miner.....	77	76	3	39	115 43	2 42	113 01	37 67	2 90	51	51	1 23
Miner.....	74	60	3	43	114 13	2 56	111 57	37 19	2 59	58	72	1 25
Miner.....	74	59	3	34	1 06 63	2 40	108 23	36 08	3 08	46	58	1 20
Miner.....	74	60	3	53	104 43	2 26	102 17	34 06	1 93	72	88	1 15
Miner.....	74	59	3	46	104 26	2 32	101 94	33 98	2 22	62	78	1 13
Miner.....	77	76	3	39	102 72	2 26	100 46	33 49	2 58	51	51	1 13
Miner.....	74	60	3	51	102 28	2 24	100 04	33 35	1 96	69	85	1 12
Miner.....	77	76	3	44	101 57	2 29	99 37	33 12	2 36	57	58	1 08
Miner.....	74	60	3	41	100 61	2 24	98 37	32 79	2 40	55	68	1 11
Miner.....	74	60	3	45	99 90	2 24	97 66	32 55	2 17	61	75	1 10
Miner.....	74	60	3	38	99 49	2 20	97 29	32 43	2 56	51	63	1 09
Miner.....	74	60	3	49	99 30	2 14	97 16	32 39	1 98	66	82	1 09
Miner.....	74	60	3	39	99 18	2 16	97 02	32 34	2 23	53	65	1 09
Miner.....	78	75	3	35	98 67	2 10	96 57	32 19	3 76	45	47	1 05
Miner.....	74	60	3	44	98 54	2 18	96 36	32 12	2 19	60	73	1 08
Miner.....	77	76	3	34	97 49	1 80	95 69	31 90	2 81	44	45	1 04
Miner.....	79	66	3	45	97 02	2 16	94 86	31 62	2 11	57	67	1 03
Miner.....	77	76	3	42	95 96	1 79	94 17	31 39	2 24	55	55	1 02
Miner.....	74	60	3	44	96 30	2 29	94 10	31 37	2 14	60	73	1 06
Miner.....	74	60	3	48	95 42	2 08	93 34	31 11	1 94	65	80	1 05
Miner.....	74	60	3	44	92 16	2 02	90 08	30 03	2 05	60	73	1 01
Miner.....	74	55	3	33	90 77	2 02	88 75	29 58	2 69	45	60	99
Miner.....	74	60	3	49	88 34	1 96	86 38	28 79	2 01	58	72	97
Miner.....	74	60	3	39	86 97	1 90	85 07	28 36	2 18	53	65	96
Miner.....	74	60	3	51	185 32	1 88	83 44	27 81	1 64	69	85	94
Miner.....	74	60	3	41	83 39	1 86	81 53	27 18	1 98	55	68	92
Miner.....	74	60	3	50	82 88	1 84	81 04	27 01	1 62	68	83	91
Miner.....	74	60	3	32	82 03	1 84	80 19	26 73	2 51	43	53	90
Miner.....	74	60	3	33	81 58	1 82	79 76	26 59	2 41	45	55	90
Miner.....	74	55	3	39	81 18	1 80	79 38	26 46	2 04	53	71	88
Miner.....	74	60	3	39	79 90	1 78	78 12	26 04	2 00	53	65	86
Miner.....	74	60	3	41	78 03	1 72	76 31	25 44	1 86	55	68	86
Miner.....	74	60	3	51	77 76	1 72	76 04	25 35	1 49	69	85	85
Miner.....	74	60	3	39	77 17	1 72	75 45	25 15	1 93	53	65	85
Miner.....	77	76	3	54	76 89	1 53	75 36	25 12	2 22	44	45	82



Table II.—Continued.

OCCUPATION.	Poss-ible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	74	60	3	35	\$76 55	\$1 68	\$74 87	\$24 96	\$2 14	47	58	\$0 84
Miner.....	74	60	3	39	75 61	1 68	73 93	24 64	1 89	53	65	83
Miner.....	74	60	3	44	75 56	1 68	73 88	24 63	1 68	60	73	83
Miner.....	74	60	3	49	75 34	1 66	73 68	24 56	1 50	66	82	83
Miner.....	74	60	3	36	74 88	1 60	73 22	24 41	2 01	49	60	82
Miner.....	77	76	3	35	71 77	1 35	70 42	23 47	2 01	45	44	77
Miner.....	74	60	3	41	70 69	1 58	69 11	23 04	1 69	55	68	78
Miner.....	74	60	3	34	70 56	1 56	69 00	23 00	2 03	46	57	78
Miner.....	74	55	3	42	70 29	1 56	68 73	22 91	1 64	57	76	76
Miner.....	74	55	3	35	69 26	1 54	67 72	22 57	1 93	47	64	75
Miner.....	77	53	3	30	69 22	1 54	67 68	22 56	2 26	39	57	74
Miner.....	74	60	3	34	69 17	1 54	67 63	22 54	1 99	46	57	76
Miner.....	77	62	3	37	68 89	1 52	67 37	22 46	1 82	48	60	74
Miner.....	77	76	3	37	65 22	1 39	63 83	21 28	1 73	48	49	68
Miner.....	74	60	3	40	65 17	1 44	63 73	21 24	1 59	54	67	72
Miner.....	74	60	3	32	63 80	1 34	62 46	20 82	1 95	43	53	70
Miner.....	74	60	3	34	63 19	1 40	61 79	20 60	1 82	46	57	69
Miner.....	74	60	3	41	62 05	1 34	60 71	20 24	1 48	55	68	68
Miner.....	74	60	3	36	59 86	1 34	58 52	19 51	1 63	49	60	66
Miner.....	74	60	3	33	58 15	1 28	56 87	18 96	1 72	45	55	64
Miner.....	78	54	3	24	57 02	1 24	55 78	18 59	2 32	30	44	61
Miner.....	74	60	3	30	55 03	1 22	53 81	17 94	1 79	41	50	60
Miner.....	74	60	3	25	54 63	1 22	53 41	17 80	2 14	34	42	60
Miner.....	74	60	3	35	54 30	1 22	53 08	17 69	1 52	47	51	60
Miner.....	77	76	3	32	53 92	1 21	52 71	17 57	1 65	42	42	57
Miner.....	78	75	3	24	52 52	1 00	51 52	17 17	2 15	31	32	56
Miner.....	74	55	3	31	52 47	1 16	51 31	17 10	1 66	42	56	57
Miner.....	74	55	3	25	51 52	1 16	50 36	13 45	2 01	34	45	56
Miner.....	74	55	3	28	49 45	1 10	48 35	16 12	1 73	38	51	54
Miner.....	74	60	3	36	49 41	1 10	48 31	16 10	1 34	49	60	54
Miner.....	78	75	3	40	48 91	1 08	47 83	15 94	1 20	51	53	52
Miner.....	74	60	3	29	47 59	1 00	46 59	15 53	1 61	39	48	52
Miner.....	77	76	3	24	44 50	1 00	43 50	14 50	1 81	31	32	47
Miner.....	74	55	3	23	42 79	94	41 85	13 95	1 82	31	42	47
Miner.....	77	76	3	25	41 97	1 22	40 75	13 58	1 63	32	33	44
Miner.....	74	55	3	22	38 03	84	37 19	12 40	1 69	30	40	41
Miner.....	74	59	3	12	31 05	70	30 35	10 12	2 53	16	20	34
Miner.....	77	62	3	20	30 59	66	29 93	9 98	1 50	26	32	33
Miner.....	78	75	3	27	25 02	54	24 48	8 16	91	35	36	27
Miner.....	79	66	3	14	23 67	54	23 13	7 71	1 65	18	21	25
Miner.....	79	66	3	13	22 50	52	21 98	7 33	1 69	16	20	24
Miner.....	77	53	3	13	21 91	50	21 41	7 14	1 65	17	25	23
Miner.....	52	52	2	33	117 05	3 61	113 44	56 72	3 44	63	63	1 86
Miner.....	52	50	2	39	96 71	2 16	94 55	47 28	2 42	75	78	1 53
Miner.....	51	38	2	33	88 29	1 92	86 37	43 19	2 62	65	87	1 42
Miner.....	52	52	2	33	85 10	1 78	83 32	41 66	2 52	63	63	1 37
Miner.....	52	40	2	27	82 59	1 72	80 87	40 44	3 00	52	68	1 33
Miner.....	51	38	2	35	79 69	1 76	77 93	38 97	2 23	69	92	1 28
Miner.....	51	37	2	28	78 99	1 73	77 27	38 64	2 76	55	76	1 47
Miner.....	52	39	2	32	75 00	1 64	73 36	36 68	2 29	62	82	1 20

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	52	52	2	29	\$73 66	\$1 81	\$71 85	\$35 93	\$2 48	56	56	\$1 18	
Miner .....	52	39	2	32	71 63	1 58	70 05	35 02	2 19	62	82	1 15	
Miner .....	52	52	2	32	71 31	1 49	69 82	34 91	2 18	62	81	1 14	
Miner .....	51	37	2	30	70 70	1 56	69 14	34 57	2 20	59	81	1 13	
Miner .....	52	52	2	31	70 19	1 53	68 66	34 33	2 21	60	60	1 13	
Miner .....	51	38	2	21	68 98	1 52	67 46	33 73	2 21	41	55	1 11	
Miner .....	54	53	2	23	67 42	1 38	66 04	33 02	2 18	43	43	1 07	
Miner .....	52	52	2	23	66 55	1 03	65 52	32 76	2 22	50	50	1 07	
Miner .....	51	37	2	25	66 49	1 44	65 05	32 52	2 60	49	65	1 07	
Miner .....	51	49	2	17	64 32	1 34	62 98	31 49	2 33	53	55	1 03	
Miner .....	52	52	2	24	62 73	1 40	61 33	30 66	2 56	44	44	1 01	
Miner .....	52	52	2	30	60 63	1 35	59 28	29 64	1 98	58	58	97	
Miner .....	51	38	2	30	59 58	1 32	58 26	29 13	1 94	59	79	96	
Miner .....	52	52	2	22	58 59	1 47	57 12	28 56	2 60	42	42	94	
Miner .....	53	51	2	25	56 63	1 27	55 36	27 68	2 21	47	49	89	
Miner .....	51	38	2	29	53 36	1 18	52 18	26 09	1 80	57	76	86	
Miner .....	51	38	2	27	50 84	1 14	49 70	24 85	1 84	53	70	81	
Miner .....	52	52	2	23	50 42	1 13	49 29	24 65	2 14	42	42	81	
Miner .....	52	52	2	25	49 50	1 10	48 40	24 20	1 94	48	48	79	
Miner .....	51	38	2	32	48 87	1 04	47 83	23 91	1 49	63	84	78	
Miner .....	52	39	2	17	48 87	1 10	47 77	23 89	2 81	13	18	78	
Miner .....	52	52	2	21	48 55	80	47 75	23 88	2 27	40	40	78	
Miner .....	51	37	2	27	47 61	1 06	46 55	23 28	1 72	53	73	76	
Miner .....	48	40	2	21	47 44	1 04	46 40	23 20	2 21	44	55	79	
Miner .....	51	38	2	25	46 31	1 04	45 27	22 64	1 81	49	66	74	
Miner .....	52	52	2	25	46 19	95	45 24	22 62	1 81	48	48	74	
Miner .....	48	40	2	22	43 10	96	42 14	21 07	1 92	46	55	71	
Miner .....	51	51	2	21	42 91	95	41 96	20 98	2 00	41	41	68	
Miner .....	52	52	2	23	41 05	74	40 31	20 16	1 75	44	44	66	
Miner .....	51	38	2	30	41 13	92	40 21	20 10	1 34	59	79	66	
Miner .....	52	52	2	14	38 46	63	37 83	18 91	2 70	27	27	62	
Miner .....	51	38	2	16	35 42	78	34 64	17 32	2 17	31	42	57	
Miner .....	49	37	2	20	33 39	74	32 65	16 32	1 63	41	54	53	
Miner .....	52	39	2	16	30 15	64	29 51	14 76	1 84	31	41	48	
Miner .....	52	52	2	17	28 73	65	28 08	14 04	1 65	33	33	46	
Miner .....	50	45	2	15	27 27	62	26 65	13 32	1 78	30	33	44	
Miner .....	52	39	2	17	26 92	60	26 32	13 16	1 49	13	18	43	
Miner .....	52	52	2	17	26 57	92	25 65	12 83	1 51	31	31	42	
Miner .....	49	37	2	15	22 55	50	22 05	11 03	1 47	31	41	36	
Miner .....	26	20	1	19	55 91	1 22	54 69	54 69	2 88	73	95	1 82	
Miner .....	26	27	1	16	44 07	1 01	43 06	43 06	2 69	62	59	1 39	
Miner .....	26	27	1	18	43 65	97	42 68	42 68	2 37	69	67	1 38	
Miner .....	26	27	1	18	42 79	95	41 84	41 84	2 32	69	67	1 35	
Miner .....	26	27	1	18	42 48	82	41 66	41 66	2 31	69	67	1 34	
Miner .....	26	27	1	19	40 85	68	40 17	40 17	2 11	73	70	1 30	
Miner .....	26	27	1	16	40 96	83	40 13	40 13	2 51	62	59	1 29	
Miner .....	26	27	1	17	40 47	1 15	39 32	39 32	2 31	65	63	1 27	
Miner .....	26	20	1	20	40 14	90	39 24	39 24	1 96	77	100	1 31	
Miner .....	26	27	1	18	38 81	86	37 95	37 95	2 11	69	67	1 22	
Miner .....	26	27	1	17	38 59	86	37 73	37 73	2 22	65	63	1 22	

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing. ....	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	26	27	1	20	\$38 74	\$1 03	\$37 71	\$37 71	\$1 89	77	74	\$1 22
Miner .....	26	27	1	19	36 71	67	36 04	36 04	1 90	73	70	1 16
Miner .....	27	26	1	17	36 86	82	36 04	36 04	2 12	63	65	1 16
Miner .....	26	27	1	16	36 60	66	35 94	35 94	2 25	62	59	1 16
Miner .....	26	25	1	10	35 88	58	35 30	35 30	3 53	38	40	1 18
Miner .....	23	23	1	16	35 73	80	34 93	34 93	2 18	70	73	1 24
Miner .....	27	26	1	17	35 73	80	34 93	34 93	2 05	63	65	1 13
Miner .....	26	27	1	17	34 55	38	34 17	34 17	2 01	65	63	1 10
Miner .....	26	25	1	15	34 11	76	33 35	33 35	2 22	58	60	1 11
Miner .....	26	27	1	19	33 52	75	32 77	32 77	1 72	73	70	1 06
Miner .....	27	26	1	20	33 34	74	32 60	32 60	1 63	74	77	1 05
Miner .....	26	27	1	16	30 94	61	30 33	30 33	1 90	62	59	0 98
Miner .....	26	25	1	12	30 88	60	30 28	30 28	2 52	46	48	1 01
Miner .....	26	27	1	14	31 02	93	30 09	30 09	2 15	54	52	0 97
Miner .....	27	26	1	20	30 38	68	29 70	29 70	1 49	74	77	0 96
Miner .....	27	26	1	22	29 93	66	29 27	29 27	1 33	81	85	0 94
Miner .....	26	20	1	15	28 67	64	28 03	28 03	1 87	58	75	0 93
Miner .....	26	27	1	12	28 57	64	27 93	27 93	2 33	46	44	0 90
Miner .....	26	20	1	17	28 44	64	27 80	27 80	1 64	65	85	0 89
Miner .....	26	20	1	12	25 29	56	24 73	24 73	2 06	46	60	0 82
Miner .....	27	26	1	16	23 67	52	23 15	23 15	1 45	59	62	0 75
Miner .....	26	27	1	12	22 98	51	22 47	22 47	1 87	46	44	0 72
Miner .....	26	20	1	14	22 23	50	21 73	21 73	1 55	54	70	0 72
Miner .....	26	27	1	13	22 18	49	21 69	21 69	1 67	50	48	0 70
Miner .....	26	15	1	13	22 05	50	21 55	21 55	1 66	50	87	0 70
Miner .....	27	26	1	12	22 00	48	21 52	21 52	1 79	44	46	0 69
Miner .....	26	20	1	9	21 96	48	21 48	21 48	2 39	35	45	0 72
Miner .....	26	20	1	15	21 37	48	20 89	20 89	1 39	58	75	0 70
Miner .....	26	27	1	12	21 33	47	20 86	20 86	1 74	46	44	0 67
Miner .....	26	20	1	9	21 06	46	20 60	20 60	2 29	35	45	0 69
Miner .....	27	26	1	8	20 93	46	20 47	20 47	2 56	30	31	0 66
Miner .....	26	20	1	12	20 74	46	20 28	20 28	1 69	46	60	0 68
Miner .....	25	18	1	13	19 89	44	19 45	19 45	1 50	52	72	0 63
Miner .....	26	27	1	10	19 78	41	19 37	19 37	1 94	38	37	0 62
Miner .....	27	26	1	11	18 72	42	18 30	18 30	1 66	41	42	0 59
Miner .....	27	26	1	10	18 58	42	18 16	18 16	1 82	37	38	0 59
Miner .....	26	27	1	7	20 03	2	17 84	17 84	2 55	27	26	0 58
Miner .....	26	15	1	9	17 77	40	17 37	17 37	1 93	35	60	0 56
Miner .....	26	20	1	8	16 92	38	16 54	16 54	2 07	31	40	0 55
Miner .....	26	20	1	6	7 15	16	6 99	6 99	1 17	23	30	0 23

Table II.—Continued.

## OTHER EMPLOYÉES, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Boss, pit.....	306	262	12	312	\$80 00	\$3 00	.....	\$935 00	\$77 92	\$3 00	102	\$2 56										
Boss.....	255	224	10	226	.....	3 00	\$2 00	612 12	61 21	2 72	90	\$2 01										
Boss, night, bot.	156	142	6	146	.....	2 50	.....	549 25	58 21	2 39	94	1 39										
Boss, bottom....	128	113	5	116	.....	2 94	2 00	302 75	60 55	2 61	90	1 97										
Boss, night.....	100	60	4	75	.....	2 50	.....	183 50	45 87	2 45	75	1 53										
Boss, well.....	103	90	4	55	.....	2 25	2 00	114 56	28 64	2 08	53	93										
Boss, top.....	78	67	3	79	75 00	2 25	.....	179 37	59 79	2 27	101	1 95										
Boss.....	78	75	3	46	.....	2 50	2 25	112 25	37 41	2 44	60	1 22										
Engineer.....	306	262	12	356½	75 00	.....	.....	878 85	73 23	2 46	117	2 41										
Engineer, day....	280	235	11	239¾	60 00	2 00	.....	492 50	44 77	2 05	85	1 47										
Engineer, night	177	147	7	178½	.....	2 00	.....	357 00	51 00	2 00	101	1 68										
Engineer.....	156	142	6	156½	75 00	2 00	.....	346 85	57 81	2 22	101	1 89										
Engineer.....	100	75	4	110¾	.....	2 00	1 75	215 62	53 90	1 95	111	1 80										
Engineer.....	52	50	2	40	75 00	.....	.....	100 00	50 00	2 50	77	1 61										
Engineer.....	51	37	2	27	38 00	.....	.....	40 94	20 47	1 52	53	66										
Engineer.....	25	23	1	25	50 00	.....	.....	50 00	50 00	2 00	100	1 67										
Engineer.....	26	15	1	18¾	.....	2 00	.....	36 50	36 50	2 00	73	1 18										
Fireman.....	306	262	12	348	.....	1 50	.....	522 00	43 50	1 50	110	1 43										
Fireman.....	254	212	10	253	.....	1 50	.....	379 50	37 95	1 50	100	1 25										
Fireman, day....	254	212	10	239¾	.....	1 50	.....	349 85	34 98	1 50	92	1 15										
Fireman, night..	180	150	7	142½	.....	2 00	1 50	264 14	37 73	1 85	79	1 23										
Fireman.....	26	20	1	10½	.....	1 88	.....	19 75	19 75	1 88	42	66										
Fireman.....	26	27	1	9½	.....	1 75	.....	16 63	16 63	1 75	40	54										
Blacksmith.....	306	262	12	264	.....	1 75	.....	462 00	38 50	1 75	86	1 27										
Blacksmith.....	229	186	9	251¾	.....	2 50	2 45	624 86	69 43	2 48	110	2 29										
Blacksmith.....	125	97	5	114¾	.....	2 75	.....	314 16	62 83	2 75	91	2 08										
Blacksmith.....	125	97	5	125	60 00	.....	.....	300 00	60 00	2 40	100	1 99										
Blacksmith.....	129	111	5	98	.....	1 75	1 50	167 50	33 50	1 71	76	1 09										
Blacksmith.....	77	65	3	58¾	.....	2 50	.....	145 63	48 54	2 50	75	1 58										
Blacksmith.....	27	26	1	29½	.....	1 60	.....	47 20	47 20	1 60	111	1 52										
Blacksmith.....	25	18	1	11	.....	2 00	.....	22 00	22 00	2 00	44	71										
Teamster.....	280	237	11	312½	40 00	.....	.....	429 01	39 00	1 37	112	1 28										
Teamster.....	254	210	10	304	45 00	.....	.....	450 00	45 00	1 48	120	1 48										
Teamster.....	104	102	4	100	38 00	.....	.....	144 96	36 24	1 45	96	1 18										
Teamster.....	52	39	2	28½	35 00	.....	.....	39 36	19 68	1 38	56	65										
Teamster.....	26	25	1	25	35 00	.....	.....	33 65	33 65	1 35	96	1 12										
Teamster.....	25	24	1	10	.....	2 00	.....	20 00	20 00	2 00	40	65										
Machinist.....	254	212	10	150¾	75 00	.....	.....	383 92	38 39	2 55	59	1 27										
Machinist.....	25	22	1	17¾	.....	2 25	.....	39 93	39 93	2 25	72	1 29										
Machinist.....	25	24	1	14¾	.....	1 75	.....	25 81	25 81	1 75	60	83										
Carpenter.....	306	262	12	178	.....	2 00	.....	356 00	29 67	2 00	58	98										
Carpenter.....	228	190	9	219¾	35 00	1 50	.....	325 64	36 18	1 48	96	1 19										
Carpenter.....	206	187	8	177	.....	1 75	.....	309 37	38 67	1 75	86	1 26										
Carpenter.....	74	60	3	51½	.....	2 00	.....	103 00	34 33	2 00	70	1 16										
Carpenter.....	50	48	2	43½	.....	1 75	.....	82 17	41 08	1 89	88	1 39										
Weighman.....	306	262	12	195½	45 00	2 00	.....	340 11	28 33	1 74	64	93										
Weighman.....	232	202	9	162¾	45 00	.....	.....	272 99	30 33	1 68	70	99										
Weighman.....	100	75	4	100	50 00	.....	.....	190 00	47 50	1 90	1 00	1 58										
Weighman.....	51	58	2	33¾	.....	2 50	.....	83 12	41 56	2 50	65	1 36										
Weighman.....	51	38	2	28	.....	2 50	.....	70 00	35 00	2 50	55	1 15										

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.	
Weighman. ....	52	44	2	25	\$45 00	.....	.....	\$38 65	\$19 32	\$1 55	48	\$0 62	
Surveyor .....	155	124	6	151	50 00	.....	.....	287 31	47 90	1 90	97	1 56	
Surveyor .....	26	25	1	26	60 00	.....	.....	60 00	60 00	2 31	100	2 00	
Surveyor .....	25	13	1	7½	.....	82 00	.....	14 50	14 50	2 00	25	48	
Watchman. ....	25	18	1	14½	.....	2 00	.....	29 00	29 00	2 00	60	24	
Cager .....	306	262	12	272	48 00	2 25	.....	611 56	50 13	2 24	89	1 67	
Cager .....	306	262	12	322	.....	1 75	.....	563 92	46 99	1 75	105	1 54	
Cager .....	306	262	12	291	.....	1 75	.....	509 67	42 47	1 75	95	1 40	
Cager .....	306	262	12	257	.....	2 00	\$1 50	501 87	41 82	1 95	84	1 38	
Cager .....	306	262	12	260	.....	1 75	.....	454 56	37 88	1 75	85	1 25	
Cager .....	280	242	11	238	.....	2 00	.....	476 00	43 27	2 00	85	1 42	
Cager .....	254	210	10	184	.....	2 00	1 75	324 69	32 47	1 76	72	1 07	
Cager .....	202	170	8	196	.....	1 85	1 60	330 73	41 34	1 69	97	1 36	
Cager .....	100	87	4	65½	.....	2 00	1 62	115 93	28 98	1 77	66	96	
Cager .....	104	90	4	38	.....	1 75	1 50	65 43	16 36	1 72	36	53	
Cager .....	79	66	3	56	.....	2 25	2 20	125 79	41 93	2 25	71	1 37	
Cager .....	77	63	3	48¾	.....	2 00	.....	97 00	32 33	2 00	64	1 07	
Cager .....	52	40	2	64	.....	1 75	.....	112 00	56 00	1 75	123	1 84	
Cager .....	48	40	2	37½	.....	2 00	.....	75 00	37 00	2 00	80	1 27	
Cager .....	51	38	2	31	.....	2 25	.....	69 75	34 87	2 25	61	1 14	
Cager .....	25	24	1	20¼	.....	1 95	.....	39 50	39 50	1 95	80	1 28	
Cager .....	26	27	1	20¾	.....	1 50	.....	30 37	30 37	1 50	80	98	
Cager .....	27	26	1	16	.....	1 75	.....	28 00	28 00	1 75	60	90	
Timberman .....	306	262	12	290½	.....	2 00	.....	581 00	48 42	2 00	95	1 59	
Timberman .....	306	262	12	252½	.....	2 25	.....	568 08	47 34	2 25	83	1 56	
Timberman .....	306	262	12	274¾	.....	2 25	2 00	561 04	46 75	2 04	90	1 54	
Timberman .....	281	244	11	252¼	.....	2 00	.....	504 50	45 86	2 00	90	1 51	
Timberman .....	281	240	11	249¼	.....	2 00	.....	498 50	45 32	2 00	89	1 49	
Timberman .....	207	180	8	166½	.....	1 50	.....	249 75	31 22	1 50	81	1 02	
Timberman .....	150	120	6	113	.....	2 00	.....	226 00	37 50	2 00	75	1 25	
Timberman .....	104	102	4	104¼	.....	2 00	.....	208 50	52 12	2 00	100	1 70	
Timberman .....	100	75	4	44¼	.....	2 00	.....	88 50	22 12	2 00	44	74	
Timberman .....	74	60	3	58¼	.....	2 00	.....	116 50	38 83	2 00	78	1 42	
Timberman .....	74	60	3	46¾	.....	2 50	.....	115 62	38 54	2 50	62	1 30	
Timberman .....	77	63	3	44¾	.....	2 00	.....	89 50	29 83	2 00	58	97	
Timberman .....	51	38	2	46½	.....	2 00	.....	93 00	46 50	2 00	92	1 52	
Timberman .....	48	40	2	42	.....	2 00	.....	84 00	42 00	2 00	88	1 42	
Timberman .....	48	40	2	40¼	.....	2 00	.....	80 50	40 25	2 00	83	1 36	
Timberman .....	51	38	2	37	.....	2 00	.....	74 00	37 00	2 00	73	1 21	
Timberman .....	52	40	2	33	.....	2 00	.....	66 00	33 00	2 00	63	1 08	
Timberman .....	49	37	2	34½	.....	2 00	1 82	64 62	32 31	1 87	71	1 10	
Timberman .....	52	50	2	27¼	.....	2 00	.....	54 50	27 25	2 00	52	88	
Timberman .....	49	37	2	23	.....	2 00	.....	46 00	23 00	2 00	47	80	
Timberman .....	49	37	2	23	.....	2 00	.....	46 00	23 00	2 00	47	80	
Timberman .....	51	33	2	17½	.....	2 25	2 00	37 31	18 65	2 16	33	61	
Timberman .....	52	40	2	18¾	.....	2 00	.....	37 00	18 50	2 00	37	61	
Timberman .....	27	26	1	24	.....	2 00	.....	48 00	48 00	2 00	90	1 55	
Timberman .....	25	18	1	23	.....	2 00	.....	46 00	46 00	2 00	92	1 50	
Timberman .....	27	26	1	17½	.....	2 00	.....	35 00	35 00	2 00	67	1 13	
Timberman .....	27	27	1	17	.....	2 00	.....	34 00	34 00	2 00	63	1 10	



Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Highest.	Highest.	Low-est.	Am't.	Am't.	Am't	Time	Am't.	
Laborer, below.	125	97	5	97	.....	\$2 00	.....	\$194 00	\$38 80	\$2 00	78	\$1 28	
Laborer, below.	125	97	5	74½	.....	2 00	.....	149 00	29 80	2 00	60	99	
Laborer, below.	129	124	5	59½	.....	2 00	.....	119 00	23 80	2 00	47	78	
Laborer, below.	100	75	4	104½	.....	2 13	\$2 00	212 00	53 00	2 03	105	1 77	
Laborer, below.	99	82	4	86½	.....	2 00	.....	173 00	43 20	2 00	88	1 44	
Laborer, below.	104	102	4	82½	.....	2 00	.....	165 00	41 25	2 00	80	1 34	
Laborer, below.	104	102	4	82	.....	2 00	.....	164 00	41 00	2 00	79	1 33	
Laborer, below.	105	81	4	71¾	.....	2 00	.....	143 50	35 87	2 00	69	1 17	
Laborer, below.	100	75	4	71	.....	2 00	.....	142 00	35 50	2 00	71	1 18	
Laborer, below.	103	90	4	69¾	.....	2 00	.....	138 50	34 62	2 00	67	1 13	
Laborer, below.	99	77	4	66¾	.....	2 00	.....	132 50	33 12	2 00	67	1 10	
Laborer, below.	100	75	4	66	.....	2 00	.....	132 00	33 00	2 00	66	1 10	
Laborer, below.	103	96	4	64¾	.....	2 00	.....	129 50	32 37	2 00	63	1 06	
Laborer, below.	101	81	4	64¾	.....	2 00	.....	129 00	32 25	2 00	64	1 07	
Laborer, below.	104	102	4	64¾	.....	2 00	.....	123 50	30 87	2 00	60	1 00	
Laborer, below.	100	75	4	60	.....	2 00	.....	120 00	30 00	2 00	60	1 00	
Laborer, below.	103	88	4	77	.....	2 00	75	110 56	27 64	1 44	75	90	
Laborer, below.	100	75	4	54½	.....	2 00	.....	109 00	27 00	2 00	55	91	
Laborer, below.	102	81	4	52	.....	2 00	.....	104 00	26 00	2 00	51	85	
Laborer, below.	100	75	4	50½	.....	2 00	.....	101 00	25 25	2 00	50	84	
Laborer, below.	100	75	4	47	.....	2 00	.....	94 00	23 50	2 00	47	78	
Laborer, below.	77	76	3	67¾	.....	2 00	.....	134 50	44 83	2 00	87	1 46	
Laborer, below.	74	60	3	65	.....	2 00	.....	130 00	43 34	2 00	88	1 46	
Laborer, below.	74	60	3	64¾	.....	2 00	.....	129 00	43 00	2 00	88	1 45	
Laborer, below.	74	60	3	63¾	.....	2 00	.....	127 50	42 50	2 00	88	1 43	
Laborer, below.	79	70	3	57¾	.....	2 00	.....	114 50	38 17	2 00	92	1 24	
Laborer, below.	74	60	3	55¾	.....	2 00	.....	111 50	37 17	2 00	76	1 25	
Laborer, below.	74	60	3	53	.....	2 00	.....	106 00	35 33	2 00	72	1 20	
Laborer, below.	74	60	3	51½	.....	2 00	.....	103 00	34 33	2 00	70	1 16	
Laborer, below.	74	55	3	51¾	.....	2 00	.....	102 50	34 17	2 00	70	1 14	
Laborer, below.	77	76	3	51	.....	2 00	.....	102 00	34 00	2 00	66	1 11	
Laborer, below.	77	57	3	50¾	.....	2 00	.....	100 50	33 50	2 00	65	1 13	
Laborer, below.	76	60	3	43½	.....	2 00	.....	87 00	29 00	2 00	58	95	
Laborer, below.	74	55	3	42	.....	2 00	.....	84 00	28 00	2 00	57	93	
Laborer, below.	74	55	3	36	.....	2 00	1 78	70 50	23 50	1 96	49	78	
Laborer, below.	79	66	3	34	.....	2 00	.....	68 00	22 67	2 00	43	74	
Laborer, below.	77	63	3	32¾	.....	2 00	.....	64 50	21 50	2 00	42	71	
Laborer, below.	74	55	3	26¾	.....	2 50	2 00	59 12	19 71	2 25	35	66	
Laborer, below.	50	45	2	47	.....	2 00	.....	94 00	47 00	2 00	94	1 54	
Laborer, below.	52	50	2	40	.....	2 00	.....	80 00	40 00	2 00	77	1 30	
Laborer, below.	52	52	2	39	.....	2 00	.....	78 00	39 00	2 00	75	1 26	
Laborer, below.	51	38	2	38¾	.....	2 00	.....	76 50	38 25	2 00	75	1 25	
Laborer, below.	51	38	2	38	.....	2 00	.....	76 00	38 00	2 00	75	1 25	
Laborer, below.	51	38	2	38	.....	2 00	.....	76 00	38 00	2 00	75	1 25	
Laborer, below.	51	49	2	37¾	.....	2 00	.....	74 50	37 25	2 00	73	1 22	
Laborer, below.	51	38	2	37	.....	2 00	.....	74 00	37 00	2 00	73	1 22	
Laborer, below.	51	38	2	33¾	.....	2 05	2 00	68 12	34 06	2 05	65	1 12	
Laborer, below.	52	40	2	32¾	.....	2 00	.....	64 50	32 25	2 00	62	1 06	
Laborer, below.	49	42	2	32¼	.....	2 00	.....	64 50	32 25	2 00	65	1 11	
Laborer, below.	51	49	2	28½	.....	2 25	.....	64 12	32 06	2 25	57	1 05	



Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Laborer, below.	49	42	2	32	.....	\$2 00	.....	\$64 00	\$32 00	\$2 00	65	\$1 10										
Laborer, below.	48	40	2	31¾	.....	2 00	.....	63 50	31 75	2 00	67	1 08										
Laborer, below.	51	38	2	31¾	.....	2 00	.....	63 50	31 75	2 00	63	1 04										
Laborer, below.	52	40	2	31	.....	2 00	.....	62 00	31 00	2 00	69	1 02										
Laborer, below.	51	38	2	30½	.....	2 00	.....	61 00	30 50	2 00	60	1 00										
Laborer, below.	48	40	2	28¾	.....	2 00	.....	56 50	28 25	2 00	58	96										
Laborer, below.	51	38	2	28	.....	2 00	.....	56 00	28 00	2 00	55	92										
Laborer, below.	49	42	2	27¾	.....	2 00	.....	55 50	27 75	2 00	57	96										
Laborer, below.	49	37	2	27	.....	2 00	.....	54 00	27 00	2 00	55	92										
Laborer, below.	51	38	2	26¾	.....	2 00	.....	52 50	26 25	2 00	51	86										
Laborer, below.	48	40	2	24	.....	2 00	.....	48 00	24 00	2 00	50	81										
Laborer, below.	52	40	2	23	.....	2 00	.....	46 00	23 00	2 00	44	75										
Laborer, below.	52	39	2	22½	.....	2 00	.....	45 00	22 50	2 00	44	74										
Laborer, below.	52	40	2	21¾	.....	2 00	.....	43 50	21 75	2 00	42	71										
Laborer, below.	52	39	2	28½	.....	1 50	.....	42 75	21 37	1 50	56	70										
Laborer, below.	49	37	2	21	.....	2 00	.....	42 00	21 00	2 00	43	71										
Laborer, below.	51	51	2	19	.....	2 00	.....	38 00	19 00	2 00	37	61										
Laborer, below.	52	40	2	19	.....	2 00	.....	38 00	19 00	2 00	37	62										
Laborer, below.	51	51	2	18	.....	2 00	.....	36 00	18 00	2 00	35	58										
Laborer, below.	49	37	2	17½	.....	2 00	.....	35 00	17 50	2 00	37	60										
Laborer, below.	49	37	2	16½	.....	2 00	.....	33 00	16 50	2 00	35	56										
Laborer, below.	49	37	2	14	.....	2 00	.....	28 00	14 00	2 00	29	48										
Laborer, below.	25	24	1	31¼	.....	2 00	.....	62 50	62 50	2 00	124	2 02										
Laborer, below.	25	24	1	28¾	.....	2 00	.....	56 50	56 50	2 00	112	1 82										
Laborer, below.	25	24	1	27¾	.....	2 00	.....	55 50	55 50	2 00	112	1 79										
Laborer, below.	26	20	1	24¾	.....	2 00	.....	49 50	49 50	2 00	96	1 65										
Laborer, below.	25	18	1	24½	.....	2 00	.....	49 00	49 00	2 00	100	1 58										
Laborer, below.	26	20	1	24	.....	2 00	.....	48 00	48 00	2 00	92	1 60										
Laborer, below.	25	18	1	24	.....	2 00	.....	48 00	48 00	2 00	96	1 55										
Laborer, below.	25	18	1	24	.....	2 00	.....	48 00	48 00	2 00	96	1 55										
Laborer, below.	26	20	1	23¾	.....	2 00	.....	46 50	46 50	2 00	90	1 55										
Laborer, below.	23	22	1	23	.....	2 00	.....	46 00	46 00	2 00	100	1 64										
Laborer, below.	25	24	1	22	.....	2 08	.....	45 68	45 68	2 08	88	1 47										
Laborer, below.	25	18	1	21	.....	2 00	.....	42 00	42 00	2 00	100	1 35										
Laborer, below.	25	23	1	20¾	.....	2 00	.....	41 50	41 50	2 00	84	1 38										
Laborer, below.	26	27	1	18¾	.....	2 18	.....	40 93	40 93	2 18	73	1 32										
Laborer, below.	23	22	1	20	.....	2 00	.....	40 00	40 00	2 00	85	1 43										
Laborer, below.	23	22	1	20	.....	2 00	.....	40 00	40 00	2 00	85	1 43										
Laborer, below.	26	27	1	19½	.....	2 00	.....	39 00	39 00	2 00	77	1 26										
Laborer, below.	26	20	1	19	.....	2 00	.....	38 00	38 00	2 00	73	1 27										
Laborer, below.	25	23	1	19	.....	2 00	.....	38 00	38 00	2 00	76	1 27										
Laborer, below.	25	24	1	19	.....	2 00	.....	38 00	38 00	2 00	76	1 26										
Laborer, below.	23	22	1	18	.....	2 00	.....	36 00	36 00	2 00	78	1 29										
Laborer, below.	26	27	1	18	.....	2 00	.....	36 00	36 00	2 00	69	1 16										
Laborer, below.	26	20	1	17	.....	2 00	.....	34 00	34 00	2 00	65	1 13										
Laborer, below.	26	20	1	16¾	.....	2 00	.....	33 50	33 50	2 00	65	1 12										
Laborer, below.	26	20	1	16½	.....	2 00	.....	33 00	33 00	2 00	65	1 10										
Laborer, below.	25	18	1	16	.....	2 00	.....	32 00	32 00	2 00	64	1 03										
Laborer, below.	27	26	1	16	.....	2 00	.....	32 00	32 00	2 00	60	1 03										



*Table II.*—Continued.

OCCUPATION.	Possible working time omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days					Days	Mos.	Days					
Laborer, below.	25	18	1	16	.....	2 00	.....	32 00	32 00	32 00	2 00	64	\$1 03
Laborer, below.	26	20	1	15½	.....	2 00	.....	31 00	31 00	31 00	2 00	62	1 03
Laborer, below.	25	23	1	15	.....	2 00	.....	30 00	30 00	30 00	2 00	60	1 00
Laborer, below.	26	20	1	15	.....	2 00	.....	30 00	30 00	30 00	2 00	58	1 00
Laborer, below.	26	20	1	15	.....	2 00	.....	30 00	30 00	30 00	2 00	58	1 00
Laborer, below.	26	20	1	15	.....	2 00	.....	30 00	30 00	30 00	2 00	58	1 00
Laborer, below.	26	20	1	15	.....	2 00	.....	30 00	30 00	30 00	2 00	58	1 00
Laborer, below.	25	18	1	14½	.....	2 00	.....	28 50	28 50	28 50	2 00	56	92
Laborer, below.	25	23	1	14	.....	2 00	.....	28 00	28 00	28 00	2 00	56	93
Laborer, below.	23	22	1	14	.....	2 00	.....	28 00	28 00	28 00	2 00	56	93
Laborer, below.	23	22	1	13½	.....	2 00	.....	26 50	26 50	26 50	2 00	57	88
Laborer, below.	26	20	1	13	.....	2 00	.....	26 00	26 00	26 00	2 00	50	87
Laborer, below.	25	13	1	13	.....	2 00	.....	26 00	26 00	26 00	2 00	52	87
Laborer, below.	25	18	1	12	.....	2 00	.....	24 00	24 00	24 00	2 00	48	86
Laborer, below.	25	18	1	12	.....	2 00	.....	24 00	24 00	24 00	2 00	48	80
Laborer, below.	26	20	1	12	.....	2 00	.....	24 00	24 00	24 00	2 00	46	78
Laborer, below.	26	20	1	12	.....	2 00	.....	24 00	24 00	24 00	2 00	46	80
Laborer, below.	25	18	1	12	.....	2 00	.....	24 00	24 00	24 00	2 00	48	74
Laborer, below.	25	18	1	11½	.....	2 00	.....	23 00	23 00	23 00	2 00	48	77
Laborer, below.	27	26	1	11½	.....	2 00	.....	23 00	23 00	23 00	2 00	44	74
Laborer, below.	26	15	1	11½	.....	2 00	.....	23 00	23 00	23 00	2 00	46	74
Laborer, below.	27	26	1	11½	.....	2 00	.....	22 50	22 50	22 50	2 00	41	73
Laborer, below.	25	22	1	11½	.....	2 00	.....	22 50	22 50	22 50	2 00	44	73
Laborer, below.	25	18	1	11	.....	2 00	.....	22 00	22 00	22 00	2 00	44	71
Laborer, below.	25	13	1	11	.....	2 00	.....	22 00	22 00	22 00	2 00	44	73
Laborer, below.	27	26	1	11	.....	2 00	.....	22 00	22 00	22 00	2 00	41	78
Laborer, below.	25	18	1	11	.....	2 00	.....	22 00	22 00	22 00	2 00	44	73
Laborer, below.	26	15	1	10½	.....	2 00	.....	21 50	21 50	21 50	2 00	42	69
Laborer, below.	27	26	1	10½	.....	2 00	.....	21 00	21 00	21 00	2 00	41	68
Laborer, below.	27	27	1	10	.....	2 00	.....	20 00	20 00	20 00	2 00	37	65
Laborer, below.	26	20	1	10	.....	2 00	.....	20 00	20 00	20 00	2 00	38	67
Laborer, below.	23	22	1	10	.....	2 00	.....	20 00	20 00	20 00	2 00	43	71
Laborer, below.	26	20	1	10	.....	2 00	.....	20 00	20 00	20 00	2 00	38	67
Laborer, below.	26	20	1	9½	.....	2 00	.....	19 00	19 00	19 00	2 00	38	63
Laborer, below.	27	26	1	9½	.....	2 00	.....	18 50	18 50	18 50	2 00	33	60
Laborer, below.	25	22	1	9	.....	2 00	.....	18 00	18 00	18 00	2 00	36	58
Laborer, below.	27	26	1	9	.....	2 00	.....	18 00	18 00	18 00	2 00	33	58
Laborer, below.	25	13	1	9	.....	2 00	.....	18 00	18 00	18 00	2 00	36	60
Laborer, below.	26	20	1	9	.....	2 00	.....	18 00	18 00	18 00	2 00	35	60
Laborer, below.	26	27	1	9	.....	2 00	.....	18 00	18 00	18 00	2 00	35	58
Laborer, below.	26	20	1	9	.....	2 00	.....	18 00	18 00	18 00	2 00	35	60
Laborer, below.	25	24	1	8	.....	2 00	.....	16 00	16 00	16 00	2 00	32	52
Laborer, below.	26	15	1	7½	.....	2 00	.....	15 00	15 00	15 00	2 00	31	48
Laborer, below.	25	13	1	7½	.....	2 00	.....	14 50	14 50	14 50	2 00	28	48
Laborer, below.	26	20	1	7	.....	2 00	.....	14 00	14 00	14 00	2 00	27	47
Laborer, below.	25	18	1	7	.....	2 00	.....	14 00	14 00	14 00	2 00	28	45
Laborer, below.	25	18	1	7	.....	2 00	.....	14 00	14 00	14 00	2 00	28	45
Laborer, below.	26	15	1	7	.....	2 00	.....	14 00	14 00	14 00	2 00	27	45
Laborer, below.	25	15	1	6¾	.....	2 00	.....	12 50	12 50	12 50	2 00	24	42
Laborer, below.	25	15	1	6¾	.....	2 00	.....	12 50	12 50	12 50	2 00	24	42
Laborer, below.	25	15	1	6¾	.....	2 00	.....	12 50	12 50	12 50	2 00	24	42
Laborer, below.	25	15	1	6¾	.....	2 00	.....	12 50	12 50	12 50	2 00	24	42

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Laborer, below.	25	15	1	6½		\$2 00		\$12 50	\$12 50	\$2 00	24	\$0 42										
Laborer, below.	26	15	1	6		2 00		12 00	12 00	2 00	23	39										
Laborer, top....	306	262	12	318		1 60	\$1 50	506 23	42 19	1 53	104	1 39										
Laborer, top....	306	262	12	278½		1 60		446 00	37 17	1 60	94	1 22										
Laborer, top....	306	262	12	274½		1 60	1 50	419 13	34 93	1 53	90	1 15										
Laborer, top....	254	210	10	183½		1 60	1 50	276 96	27 70	1 51	72	91										
Laborer, top....	232	202	9	192½		1 60	1 50	299 65	33 29	1 56	83	109										
Laborer, top....	229	199	9	180½		1 50	94	200 63	22 29	1 11	79	73										
Laborer, top....	206	187	8	179		1 75	1 50	285 02	35 63	1 59	87	1 16										
Laborer, top....	202	160	8	187½	\$38 00	1 50		279 68	34 41	1 49	93	1 16										
Laborer, top....	202	167	8	134½		1 60	1 50	205 94	25 74	1 36	66	85										
Laborer, top....	203	185	8	123½		1 50	75	148 24	18 53	1 20	61	61										
Laborer, top....	178	148	7	130		2 00	1 50	239 50	34 21	1 84	73	1 13										
Laborer, top....	152	124	6	120		1 75	1 50	193 42	32 24	1 61	79	1 06										
Laborer, top....	154	135	6	116		1 50		173 98	29 00	1 50	75	95										
Laborer, top....	155	126	6	110½		1 50		165 36	27 56	1 50	71	90										
Laborer, top....	154	135	6	110½		1 50		165 36	27 56	1 50	71	90										
Laborer, top....	153	130	6	55½	25 00	2 00	1 50	100 38	16 73	1 82	36	55										
Laborer, top....	150	120	6	65½		1 50		98 25	16 37	1 50	44	54										
Laborer, top....	125	116	5	125		95		125 00	25 00	1 00	100	83										
Laborer, top....	129	111	5	80½		1 50		121 12	22 22	1 50	63	79										
Laborer, top....	129	115	5	73½		1 50		110 24	22 05	1 50	57	72										
Laborer, top....	102	85	4	97		1 75		169 74	42 44	1 75	95	1 39										
Laborer, top....	100	75	4	78		2 00		156 00	39 00	2 00	78	1 30										
Laborer, top....	100	75	4	99½		1 60	1 50	154 74	38 68	1 56	99	1 29										
Laborer, top....	102	97	4	94½	45 00	1 50		147 75	36 94	1 56	93	1 21										
Laborer, top....	104	102	4	81		1 60	1 50	125 22	31 30	1 55	78	1 02										
Laborer, top....	98	85	4	51½		2 00	1 50	91 00	22 75	1 76	53	76										
Laborer, top....	79	66	3	68½		1 50		102 85	34 25	1 50	87	1 12										
Laborer, top....	76	60	3	54		1 60	1 50	85 07	28 36	1 58	71	92										
Laborer, top....	77	76	3	52	35 00	1 50		64 11	21 37	1 23	68	70										
Laborer, top....	78	75	3	41				61 49	20 50	1 50	53	67										
Laborer, top....	77	72	3	40½		1 50		60 75	20 25	1 50	53	66										
Laborer, top....	77	63	3	37½		1 50		55 87	18 62	1 50	48	61										
Laborer, top....	77	66	3	24		1 50		36 00	12 00	1 50	30	40										
Laborer, top....	51	38	2	36½		1 75		63 87	31 93	1 75	73	1 05										
Laborer, top....	52	39	2	39½		1 50		59 62	29 81	1 50	75	98										
Laborer, top....	52	52	2	40½	35 00	1 50		56 75	28 37	1 40	79	93										
Laborer, top....	51	37	2	30½		1 87	1 80	56 27	28 13	1 84	61	91										
Laborer, top....	51	49	2	37		1 50		55 50	27 75	1 54	73	91										
Laborer, top....	52	50	2	34½		1 60	1 50	54 62	27 31	1 57	67	90										
Laborer, top....	50	45		36		1 50		54 00	27 00	1 50	72	89										
Laborer, top....	51	38		36	45 00	1 45		53 46	26 73	1 49	71	88										
Laborer, top....	53	53	2	32½		1 75	1 50	53 28	26 64	1 63	62	86										
Laborer, top....	51	38	2	34½		1 50		52 12	26 06	1 50	69	85										
Laborer, top....	49	37	2	29½		2 00	1 50	51 62	25 81	1 75	67	87										
Laborer, top....	51	38	2	33½		1 50		50 62	25 31	1 50	67	83										
Laborer, top....	49	42	2	39½		1 50	1 00	48 62	24 31	1 24	80	84										
Laborer, top....	51	37	2	31½		1 50		47 62	23 81	1 50	62	78										
Laborer, top....	51	38	2	31		1 50		46 50	23 25	1 50	61	76										

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.....	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Laborer, top....	52	50	2	29	.....	\$1 50	.....	.....	\$43 50	\$21 50	\$1 50	56	\$0 71
Laborer, top....	48	46	2	21½	.....	2 00	\$1 50	.....	37 00	18 00	1 74	44	63
Laborer, top....	48	37	2	19½	.....	1 75	.....	.....	34 57	17 28	1 75	41	59
Laborer, top....	52	50	2	21½	.....	1 50	.....	.....	32 25	16 12	1 50	42	53
Laborer, top....	49	37	2	16½	.....	2 00	1 50	.....	27 25	13 62	1 65	35	63
Laborer, top....	33	22	1	30	.....	2 00	.....	.....	60 00	60 00	2 00	130	2 14
Laborer, top....	26	20	1	29	.....	1 50	.....	.....	43 50	43 50	1 50	111	1 45
Laborer, top....	26	27	1	27¾	.....	1 50	.....	.....	41 62	41 62	1 50	108	1 34
Laborer, top....	26	27	1	28	.....	1 50	.....	.....	37 50	37 50	1 50	96	1 25
Laborer, top....	26	27	1	24½	.....	1 50	.....	.....	36 75	36 75	1 50	96	1 19
Laborer, top....	35	24	1	24½	.....	1 50	.....	.....	36 37	36 37	1 50	96	1 17
Laborer, top....	27	26	1	23	.....	1 50	.....	.....	34 50	34 50	1 50	85	1 11
Laborer, top....	26	15	1	23	.....	1 50	.....	.....	34 50	34 50	1 50	89	1 11
Laborer, top....	27	26	1	22¾	.....	1 50	.....	.....	34 13	34 13	1 50	85	1 10
Laborer, top....	25	23	1	22½	.....	1 50	.....	.....	33 75	33 75	1 50	92	1 13
Laborer, top....	25	23	1	22½	.....	1 50	.....	.....	33 75	33 75	1 50	92	1 13
Laborer, top....	26	25	1	21¾	.....	1 50	.....	.....	32 62	32 62	1 50	85	1 09
Laborer, top....	27	27	1	21¾	.....	1 50	.....	.....	32 62	32 62	1 50	81	1 05
Laborer, top....	26	27	1	21½	.....	1 50	.....	.....	32 25	32 25	1 50	85	1 04
Laborer, top....	25	23	1	21	.....	1 50	.....	.....	31 50	31 50	1 50	84	1 05
Laborer, top....	27	26	1	20¼	.....	1 50	.....	.....	30 37	30 37	1 50	74	98
Laborer, top....	27	26	1	19¾	.....	1 50	.....	.....	29 62	29 62	1 50	74	95
Laborer, top....	25	24	1	19¼	.....	1 50	.....	.....	28 87	28 87	1 50	76	93
Laborer, top....	26	25	1	19¼	.....	1 50	.....	.....	28 87	28 87	1 50	77	96
Laborer, top....	26	15	1	19	.....	1 50	.....	.....	28 50	28 50	1 50	73	92
Laborer, top....	27	27	1	19	.....	1 50	.....	.....	28 50	28 50	1 50	70	92
Laborer, top....	27	26	1	19	.....	1 50	.....	.....	28 50	28 50	1 50	70	92
Laborer, top....	25	22	1	18¾	.....	1 50	.....	.....	28 12	28 12	1 50	76	91
Laborer, top....	27	26	1	18½	.....	1 50	.....	.....	27 75	27 75	1 50	70	90
Laborer, top....	25	24	1	18	.....	1 50	.....	.....	27 00	27 00	1 50	72	87
Laborer, top....	27	26	1	18	.....	1 50	.....	.....	27 00	27 00	1 50	67	87
Laborer, top....	25	24	1	17½	.....	1 50	.....	.....	25 87	25 87	1 50	68	83
Laborer, top....	25	22	1	17½	.....	1 50	.....	.....	25 87	25 87	1 50	68	83
Laborer, top....	25	22	1	17	.....	1 50	.....	.....	25 50	25 50	1 50	68	83
Laborer, top....	27	26	1	18	.....	38 00	.....	.....	25 33	25 33	1 41	67	82
Laborer, top....	25	18	1	16¾	.....	1 50	.....	.....	25 12	25 12	1 50	68	81
Laborer, top....	25	24	1	15¾	.....	1 50	.....	.....	23 62	23 62	1 50	60	76
Laborer, top....	27	27	1	15½	.....	1 50	.....	.....	23 25	23 25	1 50	59	73
Laborer, top....	25	23	1	13	.....	1 50	.....	.....	19 50	19 50	1 50	52	65
Laborer, top....	27	26	1	12¾	.....	1 50	.....	.....	19 12	19 12	1 50	48	62
Laborer, top....	27	26	1	11¾	.....	1 50	.....	.....	16 87	16 87	1 50	41	54
Laborer, top....	25	22	1	11	.....	1 50	.....	.....	16 50	16 50	1 50	44	53
Laborer, top....	26	25	1	10¾	.....	1 50	.....	.....	16 12	16 12	1 50	42	54
Laborer, top....	26	25	1	10¾	.....	1 50	.....	.....	16 12	16 12	1 50	42	54
Laborer, top....	27	27	1	10¾	.....	1 50	.....	.....	16 12	16 12	1 50	41	53
Laborer, top....	25	24	1	10½	.....	1 50	.....	.....	15 75	15 75	1 50	44	51
Laborer, top....	25	24	1	10¼	.....	1 50	.....	.....	15 37	15 37	1 50	40	50
Laborer, top....	27	26	1	10	.....	1 50	.....	.....	15 00	15 00	1 50	37	48
Laborer, top....	26	25	1	10	.....	1 50	.....	.....	15 00	15 00	1 50	38	50
Laborer, top....	25	22	1	9½	.....	1 40	.....	.....	14 25	14 25	1 40	40	46

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.					
Laborer, top....	25	24	1	10	.....	\$1 40	.....	.....	.....	\$14 00	\$14 00	\$1 40	40	\$0 45
Laborer, top....	25	24	1	9 $\frac{1}{4}$	.....	1 50	.....	.....	.....	13 87	13 87	1 50	36	45
Laborer, top....	26	25	1	9	.....	1 50	.....	.....	.....	13 50	13 50	1 50	35	45
Laborer, top....	26	27	1	9	.....	1 50	.....	.....	.....	13 50	13 50	1 50	35	44
Laborer, top....	25	24	1	9	.....	1 50	.....	.....	.....	13 50	13 50	1 50	36	44
Laborer, top....	25	23	1	18	.....	75	.....	.....	.....	13 50	13 50	75	72	45
Laborer, top....	26	25	1	8 $\frac{3}{4}$	.....	1 50	.....	.....	.....	13 12	13 12	1 50	35	44
Laborer, top....	26	27	1	10	\$35 00	.....	.....	.....	.....	12 96	12 96	1 30	38	42
Laborer, top....	25	24	1	8 $\frac{1}{2}$	.....	1 50	.....	.....	.....	12 37	12 37	1 50	32	40
Laborer, top....	25	23	1	8	.....	1 50	.....	.....	.....	12 00	12 00	1 50	32	40
Laborer, top....	25	22	1	8	.....	1 50	.....	.....	.....	12 00	12 00	1 50	32	39
Laborer, top....	25	22	1	8	.....	1 50	.....	.....	.....	12 00	12 00	1 50	32	39
Laborer, top....	25	18	1	8	.....	1 50	.....	.....	.....	12 00	12 00	1 50	32	39
Laborer, top....	26	15	1	7 $\frac{1}{4}$	.....	1 50	.....	.....	.....	10 87	10 87	1 50	27	35
Laborer, top....	26	20	1	7	.....	1 50	.....	.....	.....	10 50	10 50	1 50	27	35
Laborer, top....	25	13	1	7	.....	1 50	.....	.....	.....	10 50	10 50	1 50	28	35
Laborer, top....	26	20	1	7	.....	1 50	.....	.....	.....	10 50	10 50	1 50	27	35
Laborer, top....	25	13	1	6 $\frac{3}{4}$	.....	1 50	.....	.....	.....	10 12	10 12	1 50	28	34
Laborer, top....	25	13	1	5 $\frac{1}{2}$	.....	1 50	.....	.....	.....	8 25	8 25	1 50	24	28
Driver .....	306	262	12	231	.....	2 25	\$2 00	.....	.....	485 73	40 48	2 10	75	1 33
Driver .....	280	242	11	221	.....	2 25	2 00	.....	.....	479 64	43 60	2 17	79	1 43
Driver .....	279	226	11	206 $\frac{3}{4}$	.....	2 25	2 00	.....	.....	422 12	38 38	2 04	74	1 26
Driver .....	280	242	11	197 $\frac{1}{4}$	.....	2 25	2 00	.....	.....	408 68	37 15	2 07	71	1 22
Driver .....	281	240	11	164 $\frac{3}{4}$	.....	2 25	2 00	.....	.....	334 68	30 43	2 03	59	1 00
Driver .....	255	234	10	214 $\frac{3}{4}$	65 00	2 50	.....	.....	.....	536 87	53 14	2 50	84	1 77
Driver .....	254	210	10	235	.....	2 00	.....	.....	.....	470 00	47 00	2 00	93	1 55
Driver .....	228	199	9	172	.....	2 00	.....	.....	.....	344 00	38 22	2 00	75	1 26
Driver .....	228	192	9	158	.....	2 25	2 00	.....	.....	340 66	37 85	2 16	69	1 25
Driver .....	232	202	9	145 $\frac{1}{2}$	.....	2 25	2 00	.....	.....	320 72	35 64	2 20	63	1 16
Driver .....	206	187	8	142	.....	2 25	.....	.....	.....	219 50	39 94	2 25	69	1 30
Driver .....	206	187	8	164 $\frac{1}{2}$	.....	1 75	.....	.....	.....	287 88	35 99	1 75	80	1 18
Driver .....	202	160	8	137 $\frac{1}{2}$	.....	2 00	.....	.....	.....	275 00	34 38	2 00	68	1 14
Driver .....	204	173	8	132 $\frac{1}{2}$	.....	2 00	.....	.....	.....	265 00	33 12	2 00	65	1 10
Driver .....	177	147	7	153 $\frac{1}{2}$	.....	2 00	.....	.....	.....	307 00	43 86	2 00	87	1 45
Driver .....	181	165	7	135 $\frac{1}{4}$	.....	2 25	2 00	.....	.....	289 31	41 53	2 14	75	1 40
Driver .....	178	157	7	126 $\frac{1}{2}$	.....	2 00	.....	.....	.....	253 00	36 14	2 00	71	1 19
Driver .....	150	120	6	122	.....	2 00	.....	.....	.....	244 00	40 67	2 00	81	1 35
Driver .....	151	122	6	110 $\frac{3}{4}$	.....	2 25	2 00	.....	.....	237 62	39 60	2 15	74	1 31
Driver .....	151	127	6	117 $\frac{1}{4}$	.....	1 75	1 66	.....	.....	203 30	33 88	1 73	78	1 12
Driver .....	150	120	6	131 $\frac{1}{4}$	.....	1 50	.....	.....	.....	198 36	33 06	1 51	87	1 10
Driver .....	150	120	6	93 $\frac{1}{4}$	.....	2 35	2 00	.....	.....	196 62	32 77	2 11	62	1 09
Driver .....	155	135	6	110 $\frac{3}{4}$	.....	2 00	1 60	.....	.....	194 11	32 35	1 76	71	1 06
Driver .....	155	126	6	40	.....	2 25	2 00	.....	.....	84 97	14 16	2 12	26	46
Driver .....	125	97	5	123	.....	2 00	.....	.....	.....	246 00	49 20	2 00	91	1 63
Driver .....	127	101	5	114 $\frac{3}{4}$	.....	2 00	.....	.....	.....	229 50	45 90	2 00	98	1 52
Driver .....	136	109	5	100 $\frac{1}{2}$	.....	2 00	.....	.....	.....	201 00	40 20	2 00	80	1 33
Driver .....	125	97	5	92 $\frac{1}{4}$	.....	2 25	2 00	.....	.....	194 06	38 81	2 10	74	1 29
Driver .....	128	105	5	90 $\frac{1}{2}$	.....	2 00	.....	.....	.....	181 00	36 20	2 00	71	1 19
Driver .....	130	115	5	77	.....	2 25	.....	.....	.....	173 25	34 61	2 25	59	1 13
Driver .....	126	107	5	76 $\frac{3}{4}$	.....	2 25	2 00	.....	.....	162 05	32 41	2 11	61	1 07

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.					
Driver .....	127	105	5	78½	.....	\$2 00	\$1 50	\$153 00	\$30 60	\$1 95	62	\$0 99		
Driver .....	100	75	4	100	\$38 00	2 00	.....	198 00	49 50	1 98	100	1 66		
Driver .....	100	75	4	108¼	.....	2 00	1 57	189 57	47 34	1 75	108	1 58		
Driver .....	104	102	4	92¾	.....	2 00	.....	185 50	46 44	2 00	89	1 51		
Driver .....	99	84	4	90¾	.....	2 25	1 75	162 00	40 50	1 79	91	1 35		
Driver .....	100	75	4	76	.....	2 00	.....	152 00	38 00	2 00	76	1 27		
Driver .....	103	92	4	69¾	.....	2 25	2 00	149 68	37 42	2 16	67	1 25		
Driver .....	100	75	4	74¾	.....	2 00	.....	149 50	37 37	2 00	75	1 25		
Driver .....	100	75	4	63	.....	2 50	2 00	147 87	36 97	2 35	63	1 23		
Driver .....	104	102	4	62½	.....	2 25	.....	140 62	35 10	2 25	61	1 14		
Driver .....	101	87	4	67	.....	2 00	.....	134 00	33 50	2 00	66	1 13		
Driver .....	100	75	4	57	.....	2 50	1 70	134 00	33 50	2 35	57	1 12		
Driver .....	100	75	4	62	.....	2 00	.....	121 00	31 00	2 00	62	1 03		
Driver .....	99	68	4	41¾	.....	2 00	.....	83 50	20 87	2 00	42	70		
Driver .....	75	57	3	50¾	.....	2 50	2 40	135 37	45 12	2 41	75	1 52		
Driver .....	77	76	3	56	.....	2 25	2 00	118 00	39 34	2 11	73	1 28		
Driver .....	74	60	3	55½	.....	2 00	.....	111 00	37 00	2 00	76	1 25		
Driver .....	78	77	3	45	.....	2 25	2 00	100 86	33 62	2 24	58	1 08		
Driver .....	76	63	3	45¾	.....	2 00	.....	91 50	39 50	2 00	61	1 01		
Driver .....	77	72	3	61½	40 00	.....	.....	89 21	29 74	1 45	81	97		
Driver .....	78	75	3	42	.....	2 25	2 00	88 31	29 44	2 10	54	96		
Driver .....	76	65	3	34	.....	2 25	2 00	74 30	24 77	2 19	45	82		
Driver .....	77	72	3	29½	.....	2 25	2 00	61 30	20 43	2 10	38	67		
Driver .....	76	60	3	48	.....	1 00	.....	48 00	16 00	1 00	63	52		
Driver .....	52	50	2	45	.....	2 00	.....	90 00	45 00	2 00	87	1 45		
Driver .....	50	45	2	33	.....	2 25	2 00	72 87	36 48	2 21	66	1 19		
Driver .....	54	53	2	33½	.....	2 25	2 00	72 00	36 00	2 15	63	1 16		
Driver .....	51	37	2	35½	.....	2 00	.....	70 50	35 25	2 00	69	1 14		
Driver .....	50	45	2	38	45 00	.....	.....	68 40	34 20	1 80	76	1 12		
Driver .....	51	38	2	34	.....	2 00	.....	68 00	34 00	2 00	67	1 12		
Driver .....	52	40	2	31	.....	2 00	.....	62 00	31 00	2 00	60	1 02		
Driver .....	52	39	2	29¾	.....	2 00	.....	59 50	29 75	2 00	58	98		
Driver .....	52	35	2	29	.....	2 00	.....	58 00	29 00	2 00	56	97		
Driver .....	52	50	2	28¾	.....	2 00	.....	57 00	28 50	2 00	56	92		
Driver .....	53	46	2	28	.....	2 00	.....	56 00	28 00	2 00	53	92		
Driver .....	52	50	2	26¼	.....	2 00	.....	52 50	26 25	2 00	50	85		
Driver .....	49	37	2	23	.....	2 00	.....	46 00	23 00	2 00	47	78		
Driver .....	52	39	2	19½	.....	2 00	.....	39 00	19 50	2 00	39	64		
Driver .....	49	37	2	17	.....	2 00	.....	34 00	17 00	2 00	36	58		
Driver .....	25	23	1	22	.....	2 50	.....	55 00	55 00	2 50	88	1 83		
Driver .....	27	26	1	22¾	.....	2 00	.....	45 50	45 50	2 00	85	1 47		
Driver .....	23	22	1	19¾	.....	2 25	.....	43 87	43 87	2 25	87	1 57		
Driver .....	25	22	1	17½	.....	2 25	.....	39 37	39 37	2 25	72	1 27		
Driver .....	27	26	1	17¾	.....	2 00	.....	35 00	35 00	2 00	67	1 13		
Driver .....	25	23	1	14¾	.....	2 25	2 00	32 93	32 93	2 23	60	1 10		
Driver .....	25	22	1	15	.....	2 00	.....	30 00	30 00	2 00	60	97		
Driver .....	26	25	1	12¾	.....	2 00	.....	25 00	25 00	2 00	50	83		
Driver .....	27	26	1	12½	.....	2 00	.....	25 00	25 00	2 00	48	81		
Driver .....	25	24	1	12	.....	2 00	.....	24 00	24 00	2 00	48	77		
Driver .....	25	22	1	9¾	.....	2 00	.....	19 50	19 50	2 00	40	63		

Table II.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employed on the pay-roll.	Actual working time of employee.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employee for the time he appears on the pay-roll.	Average monthly receipts for the months employee appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.	Daily subsistence fund for the months employee appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.		
Mule tender....	254	217	10	167½	.....	\$2 50	\$2 50	2 00	1 50	\$405 30	\$40 53	\$2 42	65	\$1 33	65	\$1 33
Mule tender....	212	167	10	228¾	.....	\$45 00	.....	.....	.....	401 73	40 17	1 76	108	108	108	1 33
Mule tender....	254	210	10	259	.....	38 00	.....	.....	.....	384 85	38 48	1 49	102	102	102	1 27
Mule tender....	100	75	4	90	.....	45 00	.....	2 00	.....	167 00	41 75	1 86	90	90	90	1 40
Mule tender....	74	60	3	48½	.....	45 00	.....	1 75	.....	85 68	28 56	1 77	66	66	66	96
Mule tender....	52	52	2	55	.....	45 00	.....	.....	.....	81 00	40 50	1 47	106	106	106	1 33
Mule tender....	52	50	2	38¾	.....	.....	.....	.....	.....	76 50	38 25	2 00	73	73	73	1 23
Mule tender....	52	40	2	30	.....	45 00	.....	.....	.....	46 33	23 16	1 54	58	58	58	76
Mule tender....	26	27	1	17	.....	35 00	.....	.....	.....	22 04	22 04	1 36	65	65	65	71
Mule tender....	26	25	1	13½	.....	38 00	.....	.....	.....	19 73	19 73	1 42	54	54	54	66
Spragger.....	306	262	12	259½	.....	1 50	1 00	.....	.....	370 98	30 92	1 42	85	85	85	1 02
Spragger.....	279	235	11	192	.....	1 00	75	.....	.....	183 81	16 71	1 96	69	69	69	55
Spragger.....	52	35	2	45¾	.....	1 10	1 00	.....	.....	47 65	23 82	1 04	88	88	88	78
Dumper.....	306	262	12	245¾	.....	1 60	1 50	.....	.....	368 71	30 73	1 50	80	80	80	1 01
Dumper.....	181	165	7	181¾	.....	1 75	1 50	.....	.....	300 40	42 91	1 65	101	101	101	1 40
Dumper.....	74	60	3	57¾	.....	1 75	.....	.....	.....	101 06	33 69	1 75	80	80	80	1 14
Dumper.....	51	38	2	40¾	.....	1 75	.....	.....	.....	70 44	35 22	1 75	78	78	78	1 15
Dumper.....	49	37	2	17¾	.....	2 00	1 95	.....	.....	35 06	17 53	1 98	36	36	36	59
Dumper.....	25	24	1	23¾	.....	1 75	.....	.....	.....	41 13	41 13	1 75	96	96	96	1 33
Dumper.....	25	24	1	23	.....	1 75	.....	.....	.....	40 25	40 25	1 75	90	90	90	1 30
Dumper.....	25	13	1	8	.....	1 75	.....	.....	.....	14 00	14 00	1 75	32	32	32	47
Roadman.....	229	186	9	207½	.....	1 75	1 50	.....	.....	327 61	36 40	1 58	91	91	91	1 20
Roadman.....	156	147	6	112	.....	2 25	.....	.....	.....	252 00	42 00	2 25	72	72	72	1 37
Roadman.....	130	127	6	121¼	.....	2 00	.....	.....	.....	242 50	40 42	2 00	93	93	93	1 33
Roadman.....	128	100	5	110¼	.....	2 25	.....	.....	.....	248 06	49 61	2 25	100	100	100	1 62
Roadman.....	129	115	5	102¾	.....	2 00	.....	.....	.....	205 50	41 10	2 00	80	80	80	1 34
Roadman.....	152	125	5	91¼	.....	2 00	.....	.....	.....	182 50	36 50	2 00	60	60	60	1 00
Roadman.....	129	115	5	84¾	.....	2 00	.....	.....	.....	169 50	33 90	2 00	66	66	66	1 11
Roadman.....	104	102	4	87¾	.....	2 25	2 00	.....	.....	190 61	47 65	2 18	85	85	85	1 55
Roadman.....	100	75	4	75¾	.....	2 25	2 00	.....	.....	167 68	41 92	2 23	100	100	100	1 40
Roadman.....	74	60	2	70½	.....	2 25	.....	.....	.....	158 62	52 87	2 25	96	96	96	1 89
Roadman.....	52	39	2	36½	.....	2 00	.....	.....	.....	73 00	36 50	2 00	72	72	72	1 20
Roadman.....	51	38	2	26	.....	2 25	2 00	.....	.....	56 12	28 06	2 16	51	51	51	92
Roadman.....	27	26	1	30½	.....	2 00	.....	.....	.....	61 00	61 00	2 00	115	115	115	1 97
Roadman.....	25	23	1	21	.....	2 00	.....	.....	.....	42 00	42 00	2 00	84	84	84	1 40
Roadman.....	27	26	1	19¼	.....	2 00	.....	.....	.....	38 50	38 50	2 00	70	70	70	1 24
Roadman.....	25	18	1	11½	.....	2 00	.....	.....	.....	23 00	23 00	2 00	48	48	48	74
Cutter.....	229	186	9	145½	.....	2 25	2 00	.....	.....	300 55	33 39	2 07	78	78	78	1 10
Cutter.....	206	187	8	140¼	.....	2 25	.....	.....	.....	315 53	39 41	2 25	68	68	68	1 28
Cutter.....	177	153	7	124¼	.....	2 50	2 00	.....	.....	291 50	41 64	2 35	71	71	71	1 39
Cutter.....	126	104	5	111¾	60 00	2 00	.....	.....	.....	235 94	47 19	2 11	89	89	89	1 56
Cutter.....	129	120	5	90¾	.....	2 00	.....	.....	.....	181 50	36 30	2 00	71	71	71	1 18
Cutter.....	127	101	5	85¾	.....	2 00	.....	.....	.....	171 50	34 30	2 00	68	68	68	1 14
Cutter.....	100	75	4	107	.....	2 50	.....	.....	.....	252 50	63 12	2 50	107	107	107	2 10
Cutter.....	100	75	4	90	.....	2 50	2 00	.....	.....	216 74	54 18	2 41	90	90	90	1 81
Cutter.....	104	102	4	81¾	.....	2 50	2 25	.....	.....	190 43	47 61	2 33	79	79	79	1 55
Cutter.....	100	75	4	70	.....	2 50	2 00	.....	.....	151 50	37 88	2 16	70	70	70	1 26
Cutter.....	102	85	4	68½	.....	2 50	2 25	.....	.....	143 11	35 78	2 15	66	66	66	1 17
Cutter.....	104	102	4	63	.....	2 25	2 00	.....	.....	141 48	35 37	2 25	61	61	61	1 15
Cutter.....	100	75	4	63	.....	2 00	.....	.....	.....	126 00	31 50	2 00	63	63	63	1 05

Table II.—Continued.

OCCUPATION.	Possible working time omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.
Cutter .....	100	75	4	52½	.....	\$2 00	.....	\$165 00	\$26 25	\$2 00	53	\$0 88
Cutter .....	74	60	3	37	.....	2 00	.....	74 00	24 67	2 00	50	83
Cutter .....	76	60	3	25	.....	2 25	.....	56 24	18 75	2 25	33	61
Cutter .....	51	38	2	35	.....	2 00	.....	70 00	35 00	2 00	70	1 15
Cutter .....	51	38	2	29¾	.....	2 00	.....	59 50	29 75	2 00	59	98
Cutter .....	25	24	1	24	.....	2 25	.....	54 00	54 00	2 25	96	1 74
Cutter .....	26	27	1	19¾	.....	1 50	.....	28 87	28 87	1 50	73	98
Cutter .....	26	20	1	14	.....	2 00	.....	28 00	28 00	2 00	54	93
Water-carrier ..	22½	186	9	181½	.....	1 25	\$1 00	216 61	24 07	1 19	80	79
Trapper .....	306	262	12	223¾	.....	75	.....	167 42	13 95	75	73	46
Trapper .....	306	262	12	214¼	.....	75	.....	160 64	13 39	75	70	44
Trapper .....	306	262	12	215¼	.....	75	60	157 79	13 15	75	70	43
Trapper .....	306	262	12	191¾	.....	75	.....	143 81	11 98	75	63	39
Trapper .....	229	186	9	153	.....	75	.....	114 74	12 75	75	67	42
Trapper .....	282	202	9	147½	.....	75	.....	110 61	12 29	75	64	40
Trapper .....	177	147	7	123¾	.....	75	.....	92 80	13 26	75	70	44
Trapper .....	177	147	7	117	.....	75	.....	87 73	12 53	75	66	41
Trapper .....	156	142	6	97	.....	95	75	74 75	12 46	77	62	41
Trapper .....	155	139	6	93¾	.....	75	.....	69 98	11 66	75	60	38
Trapper .....	129	113	5	100	.....	75	.....	75 00	15 00	75	80	49
Trapper .....	129	115	5	91¼	.....	75	.....	68 44	13 69	75	71	45
Trapper .....	129	113	5	87¼	.....	75	.....	65 44	13 09	75	67	43
Trapper .....	129	115	5	82¼	.....	75	.....	61 69	12 34	75	64	40
Trapper .....	127	101	5	80	.....	75	50	43 41	8 68	54	68	29
Trapper .....	100	75	4	61¼	.....	75	.....	48 18	12 05	75	64	40
Trapper .....	104	102	4	60¾	.....	75	.....	45 57	11 39	75	60	38
Trapper .....	74	60	3	54¾	.....	1 00	75	49 25	16 42	90	74	55
Trapper .....	74	60	3	53¾	.....	75	.....	40 32	13 41	75	73	45
Trapper .....	74	60	3	46¾	.....	75	.....	34 87	11 62	75	78	39
Trapper .....	52	39	2	36	.....	75	.....	27 00	13 50	75	70	44
Trapper .....	52	39	2	35¼	.....	75	.....	26 44	13 22	75	70	43
Trapper .....	49	37	2	30¾	.....	75	.....	23 06	11 53	75	63	39
Trapper .....	52	39	2	16¾	.....	75	.....	12 18	6 09	75	31	20
Trapper .....	25	22	1	25	\$20 00	.....	.....	20 00	20 00	80	100	65
Trapper .....	23	22	1	21	.....	75	.....	15 75	15 75	75	91	56
Trapper .....	25	24	1	15	.....	75	.....	11 25	11 25	75	60	36
Trapper .....	25	24	1	17	.....	60	.....	10 20	10 20	60	68	33
Trapper .....	23	22	1	12	.....	75	.....	9 00	9 00	75	48	32
Tool-carrier....	125	97	5	89¾	.....	75	.....	67 49	13 50	75	72	45

## RECAPITULATION OF TABLE II.—Establishment I.

## MINERS, PAID BY THE TON.

No. OF MEN.	No. of months on the pay- roll.	Gross earnings.	Deduc- tions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
160...	12 Months....	\$74,231 74	\$1,408 73	\$72,823 06	\$455 14	\$37 93	62.9	\$2 37	\$1 26
37...	11 ".....	14,689 68	314 89	14,374 79	388 50	35 32	59.6	2 33	1 16
18...	10 ".....	6,757 64	144 35	6,613 19	367 40	36 74	59.2	2 24	1 21
52...	9 ".....	16,586 42	398 50	16,187 92	319 00	35 44	60.4	2 25	1 14
21...	8 ".....	6,107 27	131 27	5,976 00	284 57	35 57	60.5	2 35	1 17
28...	7 ".....	7,017 44	150 40	6,867 04	245 25	35 03	59.6	2 35	1 15
38...	6 ".....	7,425 09	159 63	7,265 46	191 19	31 86	58.6	2 17	1 06
29...	5 ".....	4,808 23	94 93	4,713 30	145 28	29 05	53.3	2 18	1 17
112...	4 ".....	13,212 12	290 23	12,921 84	115 37	28 84	53.7	2 15	1 06
92...	3 ".....	7,598 51	165 59	7,432 92	80 79	26 93	52.2	2 09	1 00
47...	2 ".....	2,668 44	59 03	2,609 41	55 50	27 75	48.5	2 24	1 01
51...	1 ".....	1,525 95	34 83	1,491 12	29 24	29 24	55.9	2 01	1 07
685...	.....	\$162,128 48	\$3,352 43	\$158,776 05	.....	\$34 65	59.07	\$2 30	\$1 14

## OTHER EMPLOYÉES, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.  Days.	Net earnings.	AVERAGES.				
				Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.	
Bosses .....	8	1,055	\$2,788 80	\$59 34	83.	\$2 64	\$1 82	
Engineers .....	9	1,152 1/2	2,518 26	54 74	90.8	2 18	1 59	
Firemen .....	6	996 1/2	1,531 57	37 85	77.	1 55	1 04	
Blacksmiths.....	8	951 1/2	2,083 35	50 81	86.6	2 19	1 56	
Teamsters.....	6	780	1,116 98	38 52	86.6	1 43	1 06	
Machinists.....	3	183 1/2	449 66	37 47	63.7	2 45	1 13	
Carpenters.....	5	669 1/2	1,176 18	34 59	79.6	1 75	1 19	
Weighmen .....	6	544 1/2	994 57	32 09	67.	1 82	1 10	
Dumpers.....	8	597 1/2	971 05	33 48	74.	1 62	1 05	
Surveyors.....	3	184 1/2	361 81	45 23	74.	1 36	1 35	
Watchmen.....	1	14 1/2	29 00	29 00	60.	1 33	1 34	
Mule tenders.....	10	947 1/2	1,690 16	37 56	78.7	1 78	1 09	
Cagers.....	18	2,417	4,531 77	40 46	79.6	1 87	1 24	
Timbermen .....	32	2,384 1/2	4,782 42	39 85	37.5	2 00	1 15	
Roadmen.....	16	1,207 1/2	2,438 20	41 32	79.3	2 01	1 33	
Drivers .....	81	6,480 1/2	13,187 46	36 53	67.9	2 03	1 15	
Laborers, below.....	167	6,835 1/2	13,687 15	33 96	61.4	2 00	1 02	
Laborers, top.....	117	5,469	8,817 42	40 97	63.9	1 52	1 81	
Cutters.....	21	1,476	3,193 89	38 02	69.9	2 16	1 22	
Brushers.....	30	1,513 1/2	3,175 00	40 19	34.1	2 09	1 16	
Spraggers, boys.....	3	497 1/2	602 44	24 09	80.7	1 21	1 78	
Trappers, boys.....	29	2,505	1,867 27	12 70	67.6	1 74	41	
Carriers, boys.....	2	274 1/2	284 10	20 29	76.	1 05	62	
	589	39,134 1/2	\$71,799 11					



TABLE III.—Establishment I.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Un- der \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'nts.	.....	3	13	42	46	35	16	3	2	.....	.....	.....	.....	160
11 "	1	2	4	8	14	6	1	1	.....	.....	.....	.....	.....	37
10 "	1	1	3	1	4	6	2	.....	.....	.....	.....	.....	.....	18
9 "	2	5	8	13	11	6	6	.....	1	.....	.....	.....	.....	52
8 "	1	.....	5	3	6	5	1	.....	.....	.....	.....	.....	.....	21
7 "	.....	3	7	6	4	5	1	1	.....	1	.....	.....	.....	28
6 "	3	5	8	9	5	4	3	.....	1	.....	.....	.....	.....	38
5 "	2	5	11	6	3	1	1	.....	1	.....	.....	.....	.....	29
4 "	15	22	30	24	12	5	1	1	1	.....	.....	.....	.....	112
3 "	24	18	14	13	6	9	3	.....	.....	.....	.....	.....	.....	92
2 "	9	14	5	9	5	3	1	.....	1	.....	.....	.....	.....	47
1 "	8	13	5	9	9	6	.....	1	.....	.....	.....	.....	.....	51
Totals.	*66	91	113	148	125	91	36	7	6	1	1	.....	.....	† 685

\*Average earnings \$17.47 for an average of 9.3 days' work.

†Average earnings of all men \$34.65 per month.

Number who earned more than the average, 273, or 40 per cent. of the whole.

Number who earned less than the average, 412, or 60 per cent. of the whole.

**TABLE IV.—Summaries of Results Shown by Monthly Pay-Rolls.****ESTABLISHMENT II.—Coal Mine in Bureau County.**

CONDITIONS:—Depth of shaft, 357 feet; thickness of coal,  $3\frac{1}{2}$  feet; working places, dry; system of working, long-wall; mining done by hand; screen bars  $\frac{1}{2}$  of an inch apart; check-weighman at the scale; price of mining, 90 cents a ton for screened coal; amount of "brushing" required, 16 inches. Operations suspended during the last four months of the year for lack of trade.

**COAL MINERS PAID BY THE TON.**

MONTHS.	Possible working time, om't- ting Sundays and holidays.											Actual running time of the mine.											Whole number of men on the pay-roll during the month.											Whole number of days' work performed during the month.											Whole number of tons of coal mined and delivered.											Net earnings of all the men employed during the month.											Average net earnings per man per month.											Average net earnings per man per day.											Average number of tons mined per man per day.											Average number of days' work performed per man.											Number of men required to produce same tonnage if at work full running 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**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	27	143	2,903 $\frac{3}{4}$	.....	\$5,289 72	\$36 99	\$1 82	.....	20.3	.....
June .....	26	26	177	3,808 $\frac{1}{2}$	.....	6,991 97	38 94	1 84	.....	21.5	.....
July .....	25	24	193	3,783 $\frac{1}{4}$	.....	6,970 35	35 03	1 84	.....	19.	.....
August .....	27	26	319	6,762 $\frac{1}{4}$	.....	12,656 74	39 68	1 89	.....	20.9	.....
September .....	25	24	325	6,473 $\frac{1}{2}$	.....	12,031 59	37 02	1 86	.....	19.9	.....
October .....	27	27	312	6,673 $\frac{1}{4}$	.....	12,172 22	39 26	1 83	.....	21.5	.....
November .....	25	23	260	5,072 $\frac{3}{4}$	.....	9,447 11	19 51	1 86	.....	19.5	.....
December .....	25	26	203	2,301 $\frac{1}{2}$	.....	5,445 96	26 83	1 88	.....	14.3	.....
January .....	26	26	14	288	.....	536 70	33 34	1 86	.....	20.5	.....
February .....	23	23	15	307	.....	591 23	39 41	1 93	.....	20.5	.....
March .....	25	25	15	289 $\frac{1}{2}$	.....	544 96	36 33	1 86	.....	19.3	.....
April .....	26	26	14	282 $\frac{1}{2}$	.....	526 37	37 60	1 86	.....	21.6	.....
The year .....	306	303	697	39,546 $\frac{1}{4}$	.....	\$73,204 92	\$36 68	\$1 85	.....	19.8	.....
Monthly Avs...	25.5	25.3	167	3,297	156,203	6,106 45	36 68	1 85	.....	19.8	.....
Totals .....	512	496	*1,272	96,194 $\frac{1}{4}$	156,203	\$214,811 92	.....	.....	48.48	.....	.....
General Avs...	25.6	24.8	570	10,378	19,525	23,807 32	\$41.17	\$2.23	48.48	18.4	.....

\*In addition to these, 44 transient miners and miners' sons worked 1,349 days during the year, mining 3,177 tons and earning \$1,963, and 384 other employés worked 2,991 days and earned \$6,546.

**TABLE V.—Individual Earnings and Working Time.**  
**ESTABLISHMENT II.—Coal Mine in Bureau County.**

*Conditions of employment given at the head of preceding table.*

*Mine in operation only eight months during the year.*

**COAL MINERS, PAID BY THE TON.**

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	206	193	8	165	\$630 59	\$13 91	\$616 68	\$77 08	\$3 73	80	85	\$2 52	
Miner.....	206	193	8	140	539 93	11 23	528 71	66 09	3 78	68	73	2 16	
Miner.....	206	193	8	162	518 61	11 14	507 47	63 46	3 13	79	84	2 07	
Miner.....	206	193	8	165	505 96	10 96	495 00	61 88	3 00	80	85	2 02	
Miner.....	206	193	8	148	503 87	15 77	493 10	61 64	2 65	72	77	2 01	
Miner.....	206	193	8	162	501 82	10 91	490 91	61 36	3 03	79	84	2 00	
Miner.....	206	193	8	163	493 71	10 89	482 82	60 35	2 96	79	84	1 97	
Miner.....	206	193	8	150	487 06	10 44	476 62	59 58	3 18	73	78	1 95	
Miner.....	206	193	8	160	486 54	9 98	476 61	59 58	2 98	78	83	1 95	
Miner.....	206	193	8	136	482 93	10 54	472 39	59 05	3 47	66	70	1 93	
Miner.....	206	193	8	167	482 52	10 60	471 92	58 99	2 83	81	87	1 93	
Miner.....	206	193	8	169	481 61	10 48	471 13	58 89	2 79	82	88	1 92	
Miner.....	206	193	8	157	478 81	9 80	469 01	58 62	2 99	76	81	1 92	
Miner.....	206	193	8	155	478 59	10 12	468 47	58 56	3 02	75	80	1 91	
Miner.....	206	193	8	158	478 54	10 34	468 20	58 53	2 96	77	82	1 91	
Miner.....	206	193	8	153	475 91	9 74	466 17	58 27	3 05	74	79	1 90	
Miner.....	206	193	8	156	474 85	10 32	464 53	58 07	2 98	76	81	1 89	
Miner.....	206	193	8	162	473 48	10 48	463 00	57 88	2 85	79	84	1 89	
Miner.....	206	193	8	147	468 92	10 15	458 77	56 72	3 08	71	76	1 85	
Miner.....	206	193	8	160	457 58	9 84	447 74	55 97	2 80	78	83	1 83	
Miner.....	206	193	8	160	456 76	9 57	447 19	55 90	2 79	78	83	1 83	
Miner.....	206	193	8	155	454 66	9 56	445 10	55 64	2 87	75	80	1 82	
Miner.....	206	193	8	159	454 02	9 44	444 58	55 56	2 79	77	82	1 81	
Miner.....	206	193	8	152	449 33	9 63	439 70	54 96	2 89	73	78	1 79	
Miner.....	206	193	8	155	445 10	9 31	435 79	54 47	2 81	75	80	1 78	
Miner.....	206	193	8	171	442 78	9 16	433 62	54 20	2 54	83	88	1 77	
Miner.....	206	193	8	158	442 44	9 70	432 74	54 09	2 73	77	82	1 77	
Miner.....	206	193	8	152	441 93	9 47	432 46	54 06	2 85	73	78	1 77	
Miner.....	206	193	8	151	435 95	9 43	426 52	53 32	2 82	73	78	1 74	
Miner.....	206	193	8	157	433 37	9 32	424 05	53 00	2 70	76	81	1 73	
Miner.....	206	193	8	149	432 26	9 68	422 58	52 82	2 83	72	77	1 72	
Miner.....	206	193	8	159	431 02	9 48	421 54	52 69	2 65	77	82	1 72	
Miner.....	206	193	8	163	428 45	8 45	420 00	52 50	2 58	79	84	1 71	
Miner.....	206	193	8	152	427 41	9 30	418 11	52 26	2 76	73	78	1 70	
Miner.....	206	193	8	169	427 05	9 05	418 00	52 25	2 47	82	88	1 70	
Miner.....	206	193	8	153	426 52	9 49	417 03	52 13	2 72	74	79	1 70	
Miner.....	206	193	8	156	425 35	9 03	416 32	52 04	2 67	76	81	1 69	
Miner.....	206	193	8	159	424 75	9 45	415 30	51 91	2 61	77	82	1 69	
Miner.....	206	193	8	151	423 10	9 31	413 79	51 72	2 74	73	78	1 69	
Miner.....	206	193	8	164	419 71	9 00	410 71	51 54	2 50	80	85	1 68	
Miner.....	206	193	8	160	416 93	9 12	407 81	50 98	2 54	78	83	1 66	
Miner.....	206	193	8	163	416 88	9 14	407 74	50 97	2 50	79	84	1 66	
Miner.....	206	193	8	158	415 90	9 18	406 72	50 84	2 57	77	82	1 64	
Miner.....	206	193	8	160	414 41	9 15	405 26	50 66	2 53	78	83	1 65	
Miner.....	206	193	8	154	413 43	9 12	404 31	50 54	2 62	75	80	1 65	

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employee.	Gross earnings of employee for the time he appears on the pay roll.	Deductions for powder, oil and sm. thing.	Net earnings of employee for the time he appears on the pay-roll.	Average monthly receipts for the months employee appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employee appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	206	193	8	163	\$411 88	\$8 23	\$403 65	\$50 45	\$2 47	79	84	\$1 65
Miner.....	206	193	8	149	412 23	8 69	403 54	50 44	2 70	72	77	1 65
Miner.....	206	193	8	145	410 74	9 10	401 64	50 21	2 77	70	75	1 64
Miner.....	206	193	8	154	409 50	8 51	401 96	50 12	2 65	75	80	1 64
Miner.....	206	193	8	159	409 11	8 59	400 52	50 07	2 52	77	82	1 63
Miner.....	206	193	8	161	405 76	8 37	397 39	49 67	2 46	78	83	1 62
Miner.....	206	193	8	149	405 13	8 49	396 64	49 58	2 66	72	77	1 62
Miner.....	206	193	8	458	404 54	8 00	396 54	49 57	2 51	77	82	1 62
Miner.....	206	193	8	138	404 80	8 50	396 30	49 54	2 87	67	71	1 62
Miner.....	206	193	8	154	403 59	8 47	395 12	49 39	2 57	75	80	1 61
Miner.....	206	193	8	153	403 09	8 50	394 59	49 32	2 58	74	79	1 61
Miner.....	206	193	8	149	401 66	8 59	393 07	49 13	2 54	72	77	1 60
Miner.....	206	193	8	150	401 32	8 73	392 59	49 07	2 62	73	78	1 60
Miner.....	206	193	8	160	400 61	8 78	391 83	48 98	2 45	78	83	1 60
Miner.....	206	193	8	143	397 72	8 06	389 66	48 71	2 72	69	74	1 59
Miner.....	206	193	8	142	397 84	8 34	389 50	48 69	2 74	69	74	1 59
Miner.....	206	193	8	153	397 52	8 57	388 95	48 62	2 54	71	79	1 59
Miner.....	206	193	8	160	397 13	8 31	388 82	48 60	2 43	78	83	1 59
Miner.....	206	193	8	151	397 46	8 96	388 50	48 56	2 57	73	78	1 59
Miner.....	206	193	8	142	395 72	8 18	387 54	48 43	2 73	69	74	1 58
Miner.....	206	193	8	155	395 70	8 64	387 06	48 38	2 49	75	80	1 58
Miner.....	206	193	8	154	395 22	8 75	386 47	48 31	2 51	75	80	1 58
Miner.....	206	193	8	152	394 85	8 54	386 31	48 29	2 54	73	78	1 58
Miner.....	206	193	8	146	394 81	8 52	386 29	48 29	2 64	71	76	1 58
Miner.....	206	193	8	127	394 69	8 67	386 02	48 25	3 04	62	65	1 58
Miner.....	206	193	8	133	394 39	8 61	385 78	48 22	2 90	65	69	1 57
Miner.....	206	193	8	142	393 55	8 23	385 32	48 17	2 71	69	74	1 57
Miner.....	206	193	8	156	391 46	8 31	383 15	47 89	2 45	76	81	1 56
Miner.....	206	193	8	145	391 03	8 54	382 49	47 81	2 63	70	75	1 56
Miner.....	206	193	8	151	390 57	8 21	382 36	47 79	2 53	73	78	1 56
Miner.....	206	193	8	146	387 23	7 97	379 26	47 41	2 66	71	76	1 55
Miner.....	206	193	8	142	385 66	7 05	378 61	47 32	2 66	69	74	1 55
Miner.....	206	193	8	156	384 31	8 24	376 07	47 01	2 41	76	81	1 53
Miner.....	206	193	8	140	384 15	8 37	375 78	46 97	2 58	68	73	1 53
Miner.....	206	193	8	148	382 80	8 44	374 36	46 79	2 53	72	77	1 53
Miner.....	206	193	8	138	381 42	8 40	373 02	46 63	2 70	67	71	1 52
Miner.....	206	193	8	146	379 90	7 48	372 42	46 55	2 55	71	76	1 52
Miner.....	206	193	8	153	380 24	8 10	372 14	46 52	2 43	74	79	1 52
Miner.....	206	193	8	131	379 11	8 25	370 86	46 36	2 83	64	68	1 51
Miner.....	206	193	8	153	379 11	8 26	370 85	46 35	2 42	71	79	1 51
Miner.....	206	193	8	149	378 97	8 43	370 54	46 32	2 48	72	77	1 51
Miner.....	206	193	8	132	378 00	8 25	369 74	46 22	2 80	65	68	1 51
Miner.....	206	193	8	152	376 75	8 13	368 62	46 08	2 42	73	78	1 50
Miner.....	206	163	8	150	376 40	8 37	368 03	46 00	2 45	73	78	1 50
Miner.....	206	193	8	151	374 30	8 29	366 01	45 75	2 42	73	78	1 49
Miner.....	206	193	8	160	373 92	8 10	365 82	45 73	2 28	78	83	1 49
Miner.....	206	193	8	145	373 59	7 87	365 72	45 71	2 52	70	75	1 49
Miner.....	206	193	8	153	370 27	7 86	362 41	45 30	2 36	71	79	1 48
Miner.....	206	193	8	154	369 26	7 91	361 35	45 17	2 34	75	80	1 47
Miner.....	206	193	8	135	367 39	7 73	359 66	44 96	2 66	65	70	1 47

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner	206	193	8	125	\$367 16	\$7 60	\$359 56	\$44 94	\$2 87	61	65	\$1 47
Miner	206	193	8	148	365 81	7 83	357 98	44 75	2 41	72	77	1 46
Miner	206	193	8	150	365 87	7 91	357 96	44 74	2 38	73	78	1 46
Miner	206	193	8	146	365 74	8 07	357 67	44 71	2 45	71	76	1 46
Miner	206	193	8	144	365 06	7 84	357 42	44 68	2 48	70	75	1 46
Miner	206	193	8	146	365 04	7 99	357 05	44 63	2 51	71	76	1 46
Miner	206	193	8	158	363 41	7 85	355 56	44 45	2 25	77	82	1 45
Miner	206	193	8	143	363 48	7 95	355 53	44 44	2 44	71	76	1 45
Miner	206	193	8	156	362 87	7 61	355 26	44 41	2 27	76	81	1 45
Miner	206	193	8	143	362 80	7 81	354 99	44 37	2 48	69	74	1 45
Miner	206	193	8	161	362 59	7 72	354 87	44 36	2 20	78	83	1 45
Miner	206	193	8	146	361 85	7 73	354 12	44 26	2 42	71	76	1 45
Miner	206	193	8	142	361 90	7 80	354 10	44 26	2 49	69	74	1 45
Miner	206	193	8	126	361 42	7 50	353 92	44 24	2 80	61	65	1 45
Miner	206	193	8	141	361 09	7 88	353 21	44 15	2 48	69	74	1 44
Miner	206	193	8	156	360 41	7 58	352 83	44 10	2 26	76	81	1 44
Miner	206	193	8	133	357 83	7 74	350 09	43 76	2 68	65	69	1 43
Miner	206	193	8	132	357 53	7 48	350 05	43 75	2 65	65	68	1 43
Miner	206	193	8	156	357 19	7 86	349 33	43 66	2 24	76	81	1 43
Miner	206	193	8	150	356 52	7 53	348 99	43 62	2 33	73	78	1 42
Miner	206	193	8	157	356 46	7 94	348 52	43 56	2 22	76	81	1 42
Miner	206	193	8	140	356 21	8 00	348 41	43 55	2 48	68	73	1 42
Miner	206	193	8	143	355 44	7 54	347 90	43 49	2 43	69	74	1 42
Miner	206	193	8	141	354 67	7 62	346 85	43 38	2 46	68	73	1 41
Miner	206	193	8	125	353 76	7 85	346 11	43 26	2 76	61	65	1 41
Miner	206	193	8	169	353 37	7 53	345 84	43 23	2 04	82	88	1 41
Miner	206	193	8	137	353 00	7 52	345 48	43 18	2 52	67	71	1 41
Miner	206	193	8	145	351 95	7 68	344 27	43 03	2 37	70	75	1 40
Miner	206	193	8	137	351 19	7 79	343 40	42 92	2 50	66	71	1 40
Miner	206	193	8	141	350 23	7 55	342 68	42 83	2 43	68	73	1 39
Miner	206	193	8	125	347 10	7 45	339 65	42 46	2 72	61	65	1 39
Miner	206	193	8	136	347 00	7 55	339 45	42 43	2 49	66	70	1 39
Miner	206	193	8	131	346 86	7 45	339 41	42 42	2 59	65	68	1 38
Miner	206	193	8	134	345 39	7 48	337 91	42 24	2 52	65	69	1 38
Miner	206	193	8	145	345 08	7 70	337 38	42 17	2 32	70	75	1 37
Miner	206	193	8	150	342 18	7 80	334 38	41 80	2 23	73	78	1 36
Miner	206	193	8	150	342 18	7 80	334 38	41 80	2 23	73	78	1 36
Miner	206	193	8	139	340 57	7 22	333 35	41 67	2 39	67	72	1 36
Miner	206	193	8	147	339 73	7 50	332 23	41 53	2 26	72	76	1 36
Miner	206	193	8	133	339 33	7 26	332 07	41 51	2 49	65	69	1 35
Miner	206	193	8	136	338 46	6 78	331 68	41 46	2 43	66	70	1 35
Miner	206	193	8	142	338 02	7 40	330 62	41 33	2 46	69	74	1 35
Miner	206	193	8	144	335 19	7 27	327 92	40 99	2 27	69	74	1 34
Miner	206	193	8	117	335 04	7 43	327 61	40 95	2 80	57	60	1 34
Miner	206	193	8	130	334 62	7 29	327 33	40 91	2 52	63	67	1 34
Miner	206	193	8	134	334 20	7 39	326 81	40 85	2 43	65	69	1 33
Miner	206	193	8	134	333 50	7 12	326 38	40 80	2 43	65	69	1 33
Miner	206	193	8	139	331 80	7 23	324 52	40 56	2 33	67	72	1 33
Miner	206	193	8	132	330 08	6 91	325 17	40 39	2 37	65	68	1 32
Miner	206	193	8	146	328 95	6 97	321 98	40 25	2 20	71	76	1 31

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	206	193	8	144	\$327 14	\$8 94	\$320 20	\$40 02	\$2 22		70	75	\$1 31
Miner .....	206	193	8	140	327 01	7 13	319 88	39 98	2 28		68	73	1 31
Miner .....	206	193	8	126	325 85	6 80	319 05	39 88	2 53		61	65	1 30
Miner .....	206	193	8	139	324 04	6 94	317 10	39 63	2 28		67	72	1 29
Miner .....	206	193	8	130	323 82	7 03	316 79	39 60	2 43		63	67	1 29
Miner .....	206	193	8	132	323 71	7 07	316 64	39 58	2 39		65	68	1 29
Miner .....	206	193	8	153	323 36	7 04	316 32	39 54	2 06		74	79	1 29
Miner .....	206	193	8	134	323 10	6 92	316 18	39 52	2 36		65	69	1 29
Miner .....	206	193	8	163	322 12	6 84	315 28	39 41	1 32		79	84	1 28
Miner .....	206	193	8	135	319 49	6 93	312 56	39 07	2 31		66	70	1 27
Miner .....	206	193	8	140	317 94	6 80	311 14	38 89	2 22		68	73	1 27
Miner .....	206	193	8	137	315 51	6 95	308 56	38 57	2 25		67	71	1 26
Miner .....	206	193	8	119	314 38	6 52	307 86	38 48	2 58		58	62	1 26
Miner .....	206	193	8	136	314 13	6 73	307 40	38 42	2 26		66	70	1 25
Miner .....	206	193	8	131	311 00	6 58	304 42	38 05	2 32		64	68	1 24
Miner .....	206	193	8	127	308 68	6 18	302 50	37 81	2 38		62	65	1 23
Miner .....	206	193	8	143	307 31	6 69	300 62	37 58	2 10		69	74	1 23
Miner .....	206	193	8	157	305 93	6 55	299 38	37 42	2 18		67	71	1 23
Miner .....	206	193	8	125	306 40	7 16	299 21	37 40	2 39		61	65	1 22
Miner .....	206	193	8	132	303 04	6 31	296 73	37 09	2 24		65	68	1 21
Miner .....	206	193	8	115	301 93	6 13	295 80	36 97	2 57		56	59	1 21
Miner .....	206	193	8	127	301 91	6 44	295 47	36 93	2 32		62	65	1 21
Miner .....	206	193	8	122	301 17	5 79	295 38	36 92	2 42		59	63	1 21
Miner .....	206	193	8	119	301 16	6 54	294 62	36 83	2 47		58	62	1 20
Miner .....	206	193	8	115	298 65	6 54	292 11	36 51	2 54		56	59	1 19
Miner .....	206	193	8	135	298 00	6 20	291 80	36 47	2 16		66	70	1 19
Miner .....	206	193	8	147	295 75	6 29	289 46	36 18	1 96		72	76	1 18
Miner .....	206	193	8	118	294 41	6 03	288 38	36 05	2 44		57	61	1 18
Miner .....	206	193	8	120	294 21	6 20	288 01	36 00	2 40		58	62	1 17
Miner .....	206	193	8	135	293 40	6 27	287 13	35 89	2 12		66	70	1 17
Miner .....	206	193	8	113	289 56	6 06	283 50	35 44	2 51		55	58	1 16
Miner .....	206	193	8	129	287 15	6 11	281 04	35 13	2 17		63	67	1 15
Miner .....	206	193	8	124	286 69	6 10	280 59	35 07	2 26		61	65	1 14
Miner .....	206	193	8	128	286 87	6 43	280 44	35 05	2 19		63	67	1 14
Miner .....	206	193	8	126	286 24	6 23	280 01	35 00	2 22		61	65	1 14
Miner .....	206	193	8	127	282 77	6 04	276 73	34 59	2 18		62	65	1 13
Miner .....	206	193	8	122	282 41	6 04	276 37	34 54	2 26		59	63	1 13
Miner .....	206	193	8	119	281 77	5 84	275 93	34 49	2 31		58	62	1 13
Miner .....	206	193	8	125	281 79	5 94	275 85	34 48	2 20		61	65	1 13
Miner .....	206	193	8	133	277 65	6 15	271 50	33 94	2 04		65	69	1 11
Miner .....	206	193	8	118	275 59	5 62	269 97	33 74	2 28		57	61	1 10
Miner .....	206	193	8	120	274 41	5 85	268 56	33 57	2 23		58	62	1 10
Miner .....	206	193	8	123	273 17	6 16	267 01	33 37	2 17		60	64	1 09
Miner .....	206	193	8	117	271 95	5 98	265 97	33 24	2 26		57	60	1 08
Miner .....	206	193	8	114	267 72	5 83	261 89	32 73	2 29		55	59	1 07
Miner .....	206	193	8	131	267 17	5 83	261 34	32 67	1 95		63	67	1 07
Miner .....	206	193	8	123	266 67	5 52	261 15	32 64	2 33		54	58	1 06
Miner .....	206	193	8	123	258 97	5 65	253 32	31 66	2 06		60	64	1 03
Miner .....	206	193	8	105	258 87	5 70	253 17	31 64	2 40		51	54	1 03
Miner .....	206	193	8	120	258 21	5 51	252 70	31 59	2 10		58	62	1 03

**Table V.—Continued.**

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner	206	193	96	128	\$257 39	\$5 55	\$251 84	\$31 48	\$1 98	62	66	\$1 08
Miner	206	193	113	133	251 08	5 32	245 76	30 72	2 17	55	58	1 00
Miner	206	193	133	133	249 79	5 05	244 76	30 59	1 84	69	69	1 00
Miner	206	193	115	115	218 69	5 44	213 25	30 40	1 51	56	59	94
Miner	206	193	119	119	234 16	4 88	229 28	28 66	1 92	58	62	99
Miner	206	193	8	94	120 49	4 30	206 19	25 77	2 19	46	48	84
Miner	206	193	98	98	192 73	4 20	188 53	23 57	1 92	48	51	77
Miner	181	177	7	149	469 64	10 26	459 38	65 63	3 07	82	84	2 15
Miner	181	177	7	188	467 70	10 33	457 37	65 34	3 31	76	78	2 14
Miner	181	177	7	142	449 98	9 86	440 17	62 86	3 10	78	80	2 06
Miner	181	169	7	111	439 43	9 70	429 73	61 39	3 87	62	66	2 01
Miner	181	177	7	197	438 23	9 51	428 72	61 25	3 13	76	77	2 00
Miner	181	177	7	141	427 20	8 95	418 25	59 75	2 96	78	79	1 95
Miner	181	177	7	141	418 56	8 75	409 81	59 54	2 90	78	79	1 90
Miner	180	166	7	150	416 54	8 88	407 66	59 24	2 72	83	90	1 90
Miner	181	177	7	142	411 89	9 04	402 85	57 55	2 83	78	81	1 88
Miner	181	177	7	139	410 04	7 90	402 14	57 45	2 89	77	78	1 89
Miner	181	177	7	184	391 67	7 72	388 95	54 87	2 86	74	76	1 79
Miner	181	177	7	147	391 45	8 56	382 89	54 70	2 60	81	83	1 79
Miner	181	177	7	143	390 47	8 35	382 12	54 59	2 67	80	81	1 78
Miner	181	177	7	145	389 36	8 34	381 02	54 45	2 63	80	82	1 78
Miner	181	177	7	135	387 74	8 01	379 73	54 25	2 81	74	76	1 77
Miner	181	177	7	136	380 06	8 47	371 59	53 08	2 73	75	77	1 74
Miner	181	177	7	142	378 44	8 02	370 42	52 92	2 61	78	80	1 73
Miner	181	177	7	141	373 56	8 13	365 43	52 20	2 59	74	79	1 71
Miner	180	167	7	134	372 81	8 22	364 09	52 01	2 71	74	80	1 69
Miner	181	177	7	148	369 30	8 19	361 11	51 59	2 44	82	84	1 69
Miner	181	177	7	134	367 65	7 88	359 77	51 40	2 68	74	76	1 68
Miner	181	177	7	138	367 82	8 08	359 74	51 39	2 60	76	78	1 68
Miner	181	177	7	152	365 75	7 86	357 89	51 13	2 35	84	86	1 67
Miner	181	177	7	140	365 01	7 60	357 41	51 06	2 55	77	79	1 67
Miner	180	166	7	143	361 68	7 84	353 84	50 55	2 47	79	86	1 65
Miner	181	177	7	140	360 19	7 63	352 56	50 36	2 5	77	79	1 65
Miner	181	177	7	142	358 59	6 68	351 91	50 27	2 47	78	80	1 64
Miner	181	177	7	119	357 83	7 92	349 91	49 99	2 94	66	67	1 64
Miner	181	177	7	146	356 81	7 70	349 11	49 87	2 39	81	82	1 63
Miner	181	177	7	137	355 31	7 56	347 75	49 68	2 53	75	77	1 63
Miner	181	177	7	138	354 42	7 89	346 53	49 50	2 51	76	78	1 63
Miner	181	177	7	141	353 22	7 60	345 62	49 37	2 45	78	79	1 61
Miner	180	166	7	124	352 00	7 74	344 26	49 18	2 77	69	74	1 61
Miner	181	177	7	131	348 68	6 72	341 96	48 85	2 61	72	74	1 60
Miner	181	177	7	137	348 68	7 34	341 31	48 76	2 49	75	77	1 59
Miner	181	177	7	132	348 78	7 51	341 27	48 75	2 58	73	74	1 59
Miner	180	166	7	130	348 85	7 70	338 15	48 74	2 62	72	78	1 59
Miner	180	166	7	126	345 45	7 30	331 15	48 28	2 68	70	76	1 58
Miner	181	177	7	144	343 61	7 58	336 06	48 01	2 40	79	81	1 57
Miner	181	177	7	137	342 73	7 23	335 50	47 93	2 45	75	77	1 57
Miner	180	166	7	125	341 44	7 00	334 44	47 78	2 67	69	75	1 56
Miner	180	166	7	121	341 42	7 36	334 06	47 72	2 76	67	78	1 56
Miner	181	177	7	143	339 78	6 91	332 67	47 55	2 32	79	80	1 56

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days			Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	181	177	7	138	138	\$336 56	\$7 36	\$329 20	\$47 03	\$2 38	76	77	\$1 54
Miner.....	181	177	7	143	143	336 83	7 08	329 75	46 09	2 38	79	81	1 42
Miner.....	181	177	7	139	139	332 76	7 08	325 68	46 53	2 34	77	78	1 52
Miner.....	181	177	7	140	140	331 62	6 89	324 73	46 39	2 32	77	79	1 52
Miner.....	180	166	7	124	124	330 31	7 06	323 25	46 18	2 61	69	74	1 51
Miner.....	181	177	7	117	117	329 08	7 12	321 96	45 99	2 66	64	66	1 50
Miner.....	181	177	7	144	144	327 05	6 85	320 22	45 75	2 22	79	81	1 49
Miner.....	181	177	7	141	141	326 69	7 21	319 48	45 64	2 26	78	79	1 48
Miner.....	181	177	7	133	133	323 06	7 18	315 88	45 19	2 37	73	75	1 49
Miner.....	181	177	7	129	129	317 84	6 69	311 15	44 45	2 41	71	73	1 45
Miner.....	181	177	7	134	134	316 64	6 61	310 03	44 29	2 31	74	75	1 45
Miner.....	181	177	7	117	117	316 68	6 97	309 71	44 24	2 64	64	66	1 45
Miner.....	181	177	7	118	118	316 16	6 59	309 57	44 22	2 62	65	67	1 45
Miner.....	181	177	7	132	132	313 62	6 90	306 72	43 82	2 32	73	74	1 43
Miner.....	181	177	7	135	135	312 46	6 79	305 67	43 67	2 26	74	76	1 42
Miner.....	181	177	7	132	132	312 04	6 92	305 12	43 59	2 31	72	74	1 42
Miner.....	181	177	7	121	121	308 71	6 96	301 75	43 11	2 49	67	68	1 41
Miner.....	181	177	7	146	146	306 28	6 48	298 80	42 69	2 04	81	82	1 39
Miner.....	180	166	7	108	108	304 70	6 80	287 90	42 56	2 76	60	65	1 39
Miner.....	181	177	7	130	130	304 08	6 56	287 52	42 50	2 29	71	73	1 38
Miner.....	181	177	7	130	130	301 71	6 56	285 15	42 16	2 27	72	73	1 38
Miner.....	180	166	7	120	120	301 32	6 50	284 82	42 12	2 45	66	72	1 38
Miner.....	181	177	7	125	125	300 05	6 47	283 58	41 94	2 34	69	70	1 37
Miner.....	181	177	7	125	125	299 91	6 65	288 26	41 89	2 34	69	70	1 37
Miner.....	181	177	7	121	121	290 15	6 37	283 78	40 54	2 34	67	68	1 32
Miner.....	181	177	7	125	125	287 11	5 54	281 57	40 22	2 25	69	70	1 31
Miner.....	181	177	7	126	126	285 09	6 40	278 69	39 81	2 21	69	71	1 30
Miner.....	181	177	7	137	137	280 81	6 25	274 56	39 22	2 00	75	77	1 28
Miner.....	181	177	7	117	117	280 28	6 00	274 28	39 18	2 34	64	66	1 28
Miner.....	181	177	7	126	126	278 67	5 80	272 87	38 98	2 16	69	71	1 27
Miner.....	181	177	7	106	106	260 56	4 70	255 86	36 55	2 41	58	59	1 19
Miner.....	180	177	7	121	121	258 29	5 20	253 09	36 76	2 09	67	68	1 18
Miner.....	179	166	7	108	108	253 74	5 57	248 17	35 45	2 29	60	65	1 16
Miner.....	181	177	7	117	117	251 09	5 59	245 50	35 07	2 09	64	66	1 14
Miner.....	181	177	7	116	116	243 84	5 41	238 43	34 06	2 05	64	65	1 11
Miner.....	181	177	7	117	117	242 04	5 16	236 88	33 84	2 02	64	66	1 11
Miner.....	180	167	7	95	95	227 95	4 80	223 15	31 88	2 04	53	56	1 03
Miner.....	181	169	7	102	102	226 25	4 89	221 36	31 62	2 16	56	60	1 03
Miner.....	181	177	7	122	122	224 14	4 54	219 60	31 37	1 80	67	69	1 02
Miner.....	181	177	7	106	106	221 63	4 63	217 00	31 00	2 04	58	60	1 01
Miner.....	181	177	7	107	107	217 46	4 75	212 71	30 39	1 98	59	60	99
Miner.....	181	170	7	81	81	216 50	4 25	212 25	30 32	2 62	45	47	99
Miner.....	181	169	7	79	79	216 83	4 73	212 10	30 30	2 68	44	46	98
Miner.....	180	167	7	96	96	201 31	4 37	196 94	28 13	2 05	53	57	91
Miner.....	181	177	7	97	97	175 68	3 72	171 96	21 57	1 77	53	55	80
Miner.....	181	177	7	76	76	170 78	3 57	167 21	23 89	2 20	42	43	78
Miner.....	179	167	7	74	74	165 22	3 68	161 54	23 08	2 18	41	44	75
Miner.....	154	140	6	123	123	442 42	9 36	433 06	72 18	3 38	83	91	2 35
Miner.....	155	150	6	128	128	386 21	8 50	377 70	62 95	2 95	82	85	2 06
Miner.....	155	150	6	132	132	369 68	7 96	361 72	60 29	2 74	85	88	1 97



Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smitting.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé ap- pears on the pay-roll.	
	Days	Days				Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Am't.	Am't.		
Miner .....	156	154	6	123	\$358 24	\$7 15	\$351 09	\$58 51	\$2 85	79	80	\$1 91									
Miner .....	155	150	6	120	357 72	7 76	344 96	58 32	2 91	77	80	1 91									
Miner .....	156	154	6	102	351 09	7 00	349 09	57 35	3 37	65	66	1 87									
Miner .....	154	140	6	114	336 17	7 24	328 93	54 82	3 88	74	81	1 78									
Miner .....	154	140	6	118	324 83	7 18	317 65	52 94	2 69	76	84	1 72									
Miner .....	156	154	6	111	322 14	6 60	315 54	52 59	2 84	71	72	1 71									
Miner .....	155	150	6	124	317 27	6 82	310 45	51 74	2 50	80	83	1 69									
Miner .....	154	140	6	104	314 28	6 88	307 40	51 23	2 18	67	74	1 67									
Miner .....	156	154	6	111	309 53	6 91	302 62	50 44	2 72	71	72	1 64									
Miner .....	156	153	6	107	307 25	6 77	300 48	50 08	2 80	68	70	1 63									
Miner .....	156	154	6	111	290 77	6 09	284 68	47 45	2 56	71	72	1 55									
Miner .....	155	142	6	120	288 23	6 34	281 89	46 98	2 34	77	84	1 53									
Miner .....	154	140	6	107	284 17	6 32	277 85	46 31	2 59	69	76	1 51									
Miner .....	156	154	6	111	281 29	5 78	275 51	45 92	2 48	71	72	1 49									
Miner .....	156	154	6	107	280 74	6 11	274 63	45 77	2 56	68	69	1 49									
Miner .....	155	150	6	116	270 25	5 94	264 31	44 05	2 27	74	77	1 44									
Miner .....	156	154	6	101	270 04	5 91	264 13	44 02	2 61	64	66	1 43									
Miner .....	155	150	6	101	266 44	5 66	260 78	43 46	2 58	65	67	1 42									
Miner .....	156	154	6	125	261 09	5 82	255 27	42 54	2 04	80	81	1 39									
Miner .....	156	154	6	114	257 19	5 78	251 41	41 90	2 20	73	74	1 37									
Miner .....	155	151	6	114	254 87	5 67	249 20	41 53	2 18	74	75	1 35									
Miner .....	154	140	6	96	252 37	5 48	246 89	41 15	2 57	62	68	1 34									
Miner .....	156	154	6	121	251 94	5 43	246 51	41 08	2 03	77	78	1 34									
Miner .....	155	151	6	96	246 46	5 41	241 05	40 17	2 51	61	63	1 31									
Miner .....	156	154	6	108	243 78	4 89	238 89	39 81	2 21	69	70	1 30									
Miner .....	154	143	6	87	239 36	5 04	234 32	39 05	2 69	56	61	1 28									
Miner .....	156	154	6	119	237 43	5 27	232 16	38 69	1 95	76	77	1 26									
Miner .....	154	143	6	78	225 35	4 96	220 39	36 73	2 82	51	54	1 20									
Miner .....	155	150	6	111	211 47	4 72	206 75	34 46	1 86	71	74	1 13									
Miner .....	153	139	6	82	188 85	4 20	184 65	30 77	2 25	56	59	1 01									
Miner .....	129	116	5	109	457 91	9 66	448 25	89 65	4 11	84	94	2 93									
Miner .....	130	127	5	94	389 81	8 52	381 29	76 26	4 05	72	74	2 49									
Miner .....	129	127	5	111	320 17	7 08	313 09	62 62	2 82	86	87	2 04									
Miner .....	130	127	5	113	290 22	6 36	283 86	56 77	2 51	87	89	1 85									
Miner .....	129	127	5	100	282 92	6 28	276 64	55 33	2 76	77	78	1 81									
Miner .....	129	116	5	107	269 84	5 80	264 04	52 80	2 46	83	92	1 72									
Miner .....	129	116	5	92	269 05	5 74	263 31	52 66	2 86	71	79	1 72									
Miner .....	129	116	5	96	267 03	5 80	261 23	52 24	2 72	74	82	1 71									
Miner .....	129	116	5	102	263 30	5 66	257 64	51 53	2 52	79	87	1 69									
Miner .....	129	116	5	91	259 75	5 50	254 25	50 85	2 79	70	78	1 66									
Miner .....	130	127	5	101	252 28	5 50	246 78	49 35	2 44	77	79	1 61									
Miner .....	129	124	5	102	239 51	5 08	234 43	46 88	2 29	79	82	1 53									
Miner .....	129	127	5	85	241 34	7 36	233 98	46 79	2 75	66	67	1 52									
Miner .....	129	116	5	98	231 70	4 94	226 76	45 35	2 31	75	84	1 48									
Miner .....	129	116	5	86	229 22	4 84	224 38	44 87	2 60	67	74	1 46									
Miner .....	129	116	5	77	228 62	4 90	223 72	44 74	2 90	59	66	1 46									
Miner .....	129	127	5	96	227 51	4 21	223 30	44 66	2 32	74	76	1 46									
Miner .....	129	116	5	74	226 38	4 74	221 64	44 33	2 99	57	63	1 44									
Miner .....	130	127	5	88	220 18	4 90	215 28	43 05	2 44	67	69	1 41									
Miner .....	129	116	5	88	219 79	4 76	215 03	43 00	2 44	68	75	1 40									

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner.....	129	116	5	89	\$219 44	\$4 82	\$214 62	\$42 92	\$2 41	68	76	\$1 40	
Miner.....	129	116	5	88	216 58	4 76	211 82	42 36	2 41	68	76	1 38	
Miner.....	129	127	5	81	206 82	3 45	203 37	40 67	2 51	62	63	1 33	
Miner.....	129	116	5	83	199 71	4 40	195 31	39 06	2 35	64	71	1 27	
Miner.....	130	127	5	94	198 96	4 09	194 87	38 97	2 07	72	74	1 27	
Miner.....	129	116	5	80	197 45	4 18	193 27	38 65	2 42	62	69	1 26	
Miner.....	129	116	5	72	190 03	4 18	185 85	37 17	2 58	56	62	1 21	
Miner.....	129	127	5	63	189 17	3 78	185 39	37 08	2 94	48	49	1 21	
Miner.....	128	116	5	72	187 61	3 92	183 69	36 74	2 55	57	62	1 21	
Miner.....	130	127	5	90	186 89	3 94	182 95	36 95	2 03	69	71	1 19	
Miner.....	129	116	5	81	186 55	3 88	182 67	36 53	2 25	63	69	1 19	
Miner.....	129	127	5	85	184 16	3 76	180 40	36 08	2 12	66	67	1 18	
Miner.....	129	116	5	64	174 74	3 51	171 20	34 21	2 67	46	55	1 12	
Miner.....	129	127	5	72	167 75	3 58	164 17	32 83	2 28	56	57	1 07	
Miner.....	130	127	5	64	166 81	3 64	163 17	32 63	2 55	49	50	1 07	
Miner.....	129	124	5	91	155 35	3 40	151 95	30 39	1 67	70	73	99	
Miner.....	129	116	5	53	144 73	3 06	141 67	28 33	2 67	41	45	92	
Miner.....	128	116	5	62	138 33	3 06	135 27	27 05	2 18	48	53	88	
Miner.....	104	100	4	83	217 00	4 66	212 34	53 08	2 56	80	83	1 74	
Miner.....	103	100	4	83	213 89	4 76	209 13	52 28	2 52	80	83	1 71	
Miner.....	102	90	4	76	210 73	4 68	206 05	51 51	2 70	75	84	1 69	
Miner.....	101	100	4	78	209 64	4 40	205 24	51 31	2 63	75	78	1 68	
Miner.....	102	90	4	80	209 33	4 56	204 77	51 19	2 56	78	89	1 68	
Miner.....	102	90	4	76	207 70	4 24	203 46	50 86	2 67	71	80	1 66	
Miner.....	102	90	4	76	206 24	4 38	201 86	50 46	2 65	75	84	1 65	
Miner.....	104	100	4	82	202 36	4 46	197 90	49 47	2 41	78	82	1 62	
Miner.....	102	90	4	75	201 73	4 50	197 23	49 31	2 63	74	83	1 61	
Miner.....	102	90	4	77	200 71	4 22	196 49	49 12	2 55	75	85	1 61	
Miner.....	103	100	4	82	200 48	4 24	196 24	49 02	2 39	79	82	1 60	
Miner.....	103	100	4	77	196 78	4 18	192 60	48 15	2 50	74	77	1 57	
Miner.....	102	90	4	54	196 72	4 32	192 40	48 10	3 56	52	60	1 57	
Miner.....	102	90	4	71	192 25	4 28	187 97	46 99	2 65	69	79	1 53	
Miner.....	102	90	4	71	187 55	4 16	183 39	45 85	2 68	70	79	1 50	
Miner.....	102	90	4	70	185 41	3 96	181 45	45 36	2 59	69	78	1 48	
Miner.....	102	90	4	63	181 26	3 64	177 62	44 40	2 82	62	70	1 45	
Miner.....	103	100	4	77	181 33	3 98	177 35	44 34	2 30	74	77	1 45	
Miner.....	104	100	4	75	181 15	3 82	177 33	44 33	2 36	72	75	1 45	
Miner.....	103	100	4	76	180 98	3 96	176 42	44 10	2 45	73	76	1 45	
Miner.....	102	90	4	74	179 56	4 00	175 56	43 89	2 37	73	82	1 44	
Miner.....	102	90	4	74	174 47	3 74	170 73	42 68	2 30	73	82	1 40	
Miner.....	102	90	4	67	171 87	3 82	168 05	42 01	2 50	65	74	1 37	
Miner.....	102	90	4	69	171 36	3 82	167 54	41 88	2 43	68	77	1 37	
Miner.....	102	90	4	66	170 87	3 62	167 25	41 81	2 53	65	73	1 37	
Miner.....	104	100	4	70	170 77	3 80	166 97	41 74	2 38	67	70	1 36	
Miner.....	102	90	4	60	168 19	3 46	164 73	41 18	2 84	59	67	1 35	
Miner.....	102	90	4	63	167 91	3 38	164 53	41 13	2 61	62	70	1 34	
Miner.....	102	90	4	70	167 92	3 60	164 32	41 08	2 35	69	78	1 34	
Miner.....	102	90	4	59	166 29	3 50	162 79	40 69	2 75	57	65	1 33	
Miner.....	102	90	4	67	165 99	3 42	162 57	40 64	2 42	65	74	1 33	
Miner.....	102	90	4	64	165 73	3 60	162 13	40 53	2 53	62	71	1 32	

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner	104	100	4	65	\$164 76	\$3 54	\$161 22	\$40 30	\$2 48	62	65	\$1 32
Miner	104	103	4	72	162 93	3 53	159 4	39 85	2 21	69	70	1 29
Miner	102	90	4	68	161 82	3 24	158 58	39 64	2 22	67	75	1 29
Miner	102	90	4	66	161 90	3 60	158 30	39 57	2 33	64	73	1 29
Miner	102	90	4	78	160 15	3 50	156 65	39 16	2 00	76	87	1 28
Miner	103	100	4	63	155 43	3 30	152 13	38 03	2 41	61	63	1 24
Miner	103	100	4	59	155 41	3 38	152 03	38 00	2 57	57	59	1 24
Miner	104	100	4	68	153 43	3 16	150 27	37 57	2 21	65	68	1 23
Miner	104	103	4	61	151 93	3 31	148 62	37 15	2 43	58	59	1 21
Miner	104	100	4	62	151 69	3 38	148 31	37 07	2 39	59	62	1 21
Miner	102	90	4	67	151 60	3 38	148 22	37 05	2 21	65	74	1 21
Miner	102	90	4	73	151 05	3 28	147 77	36 94	2 02	71	81	1 21
Miner	102	90	4	63	149 34	3 18	146 16	36 54	2 32	61	70	1 19
Miner	103	100	4	74	148 04	3 14	144 90	36 22	1 80	71	74	1 19
Miner	102	90	4	66	148 02	3 22	144 80	36 20	2 19	65	73	1 19
Miner	102	90	4	60	148 05	3 28	144 77	36 19	2 09	67	77	1 19
Miner	102	90	4	63	144 89	3 18	141 71	35 43	2 25	62	70	1 16
Miner	104	100	4	69	142 86	2 96	139 90	34 97	2 03	66	69	1 14
Miner	102	90	4	57	142 92	3 16	139 76	34 94	2 45	56	63	1 14
Miner	102	90	4	72	140 60	3 00	137 60	34 40	1 91	71	80	1 12
Miner	102	90	4	73	137 95	2 94	135 01	33 75	1 85	72	81	1 11
Miner	102	90	4	72	136 75	3 04	133 71	33 43	1 86	71	80	1 09
Miner	102	90	4	55	134 66	2 84	131 82	32 95	2 39	53	61	1 08
Miner	102	90	4	56	131 29	2 88	128 41	32 10	2 29	55	62	1 06
Miner	104	100	4	66	128 02	2 82	125 20	31 30	1 89	63	66	1 02
Miner	102	90	4	47	124 39	2 62	121 77	30 44	2 59	46	52	99
Miner	102	90	4	55	119 00	2 52	116 48	29 12	2 12	54	61	95
Miner	102	90	4	49	118 25	2 52	115 73	28 93	2 36	48	54	95
Miner	102	90	4	56	116 11	2 44	113 67	28 42	2 03	55	60	93
Miner	102	90	4	61	112 19	2 22	109 97	27 49	1 80	59	68	90
Miner	102	90	4	60	111 71	2 32	109 39	27 35	1 82	59	67	90
Miner	104	103	4	55	108 97	2 37	106 60	26 65	1 94	53	53	87
Miner	104	100	4	48	108 07	2 34	105 73	26 43	2 20	46	48	86
Miner	102	90	4	41	106 82	2 32	104 50	26 12	2 55	40	46	86
Miner	102	90	4	55	105 33	2 10	103 23	25 81	1 88	54	61	84
Miner	102	90	4	51	105 09	2 14	102 95	25 74	2 02	50	57	84
Miner	102	90	4	40	103 67	2 06	101 61	25 40	2 54	39	44	83
Miner	104	100	4	42	96 74	2 16	94 58	23 64	2 25	41	42	78
Miner	102	90	4	37	95 18	1 96	93 22	23 30	2 52	36	41	76
Miner	104	103	4	47	95 03	2 10	92 93	23 23	1 97	45	45	76
Miner	102	90	4	47	86 68	1 80	84 88	21 22	1 80	46	52	69
Miner	102	90	4	37	78 97	1 74	77 23	19 31	2 09	36	41	63
Miner	102	90	4	38	61 60	1 36	60 24	15 06	1 59	37	42	49
Miner	77	66	3	61	208 92	4 44	204 48	68 16	3 35	79	92	2 22
Miner	77	74	3	70	183 97	3 80	180 17	60 06	2 57	91	94	1 98
Miner	77	74	3	65	180 26	3 66	176 60	58 86	2 66	84	88	1 94
Miner	77	74	3	67	172 81	3 84	168 97	56 32	2 52	87	91	1 86
Miner	77	74	3	61	168 20	3 48	164 72	51 91	2 70	79	82	1 81
Miner	77	77	3	55	167 08	3 88	163 20	54 40	2 97	71	71	1 77
Miner	77	77	3	53	166 76	3 70	163 06	54 35	3 07	69	69	1 77

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay roll.
	Days	Days											
Miner.....	77	66	3	47	\$163 53	\$3 36	\$160 17	\$53 39	\$3 41	61	71	\$1 74	
Miner.....	79	77	3	55	159 71	3 42	156 29	52 10	2 84	69	71	1 70	
Miner.....	77	66	3	51	154 87	3 32	151 65	50 55	2 97	66	77	1 64	
Miner.....	77	66	3	60	154 07	3 42	150 65	50 22	2 51	78	91	1 64	
Miner.....	77	74	3	67	150 29	3 30	146 99	48 99	2 19	87	90	1 62	
Miner.....	77	66	3	62	145 14	3 12	142 02	47 34	2 29	80	94	1 54	
Miner.....	77	74	3	62	144 81	2 96	141 35	47 12	2 28	80	84	1 55	
Miner.....	77	66	3	62	142 36	3 06	139 30	46 43	2 25	80	94	1 52	
Miner.....	77	66	3	52	142 12	3 12	139 00	46 33	2 67	67	79	1 51	
Miner.....	77	66	3	55	140 82	3 04	137 78	45 92	2 50	71	83	1 50	
Miner.....	77	74	3	52	140 78	3 04	137 74	45 91	2 65	67	70	1 51	
Miner.....	77	77	3	52	138 31	3 42	134 89	44 96	2 59	67	67	1 47	
Miner.....	77	66	3	55	137 12	2 68	134 44	44 81	2 44	71	83	1 46	
Miner.....	77	74	3	51	136 89	2 72	134 17	44 72	2 63	66	69	1 47	
Miner.....	77	66	3	53	136 56	2 74	133 82	44 61	2 52	69	80	1 45	
Miner.....	77	66	3	48	134 84	2 96	131 88	43 96	2 74	62	72	1 43	
Miner.....	77	74	3	60	134 74	3 00	131 74	43 91	2 19	78	81	1 45	
Miner.....	77	66	3	53	134 56	3 00	131 56	43 85	2 48	69	80	1 43	
Miner.....	78	77	3	58	133 94	2 62	131 32	43 77	2 47	68	69	1 41	
Miner.....	77	74	3	60	133 82	2 98	130 84	43 61	2 18	78	81	1 45	
Miner.....	77	66	3	54	132 25	2 96	129 29	43 09	2 39	70	82	1 40	
Miner.....	77	66	3	50	127 21	2 70	124 54	41 51	2 49	65	76	1 35	
Miner.....	77	66	3	52	126 65	2 74	123 91	41 30	2 38	67	78	1 35	
Miner.....	77	66	3	50	124 83	2 78	122 05	40 68	2 44	65	76	1 32	
Miner.....	77	74	3	59	115 84	2 58	113 26	37 75	1 92	76	80	1 23	
Miner.....	77	66	3	47	112 96	2 38	110 58	36 86	2 35	61	71	1 20	
Miner.....	77	77	3	55	112 88	2 44	110 44	36 81	2 00	71	71	1 20	
Miner.....	77	77	3	51	111 11	2 47	108 64	36 21	2 13	66	66	1 18	
Miner.....	77	66	3	43	109 74	2 39	107 44	35 81	2 49	56	65	1 17	
Miner.....	77	66	3	44	109 15	2 38	106 75	35 58	2 45	57	67	1 16	
Miner.....	77	66	3	44	106 60	2 22	106 38	35 46	2 42	57	67	1 16	
Miner.....	77	66	3	41	105 59	2 22	105 37	34 46	2 52	53	62	1 12	
Miner.....	77	77	3	42	105 07	2 54	102 73	34 24	2 44	55	55	1 12	
Miner.....	77	77	3	40	101 57	2 18	99 39	33 13	2 48	52	52	1 08	
Miner.....	77	66	3	38	100 67	2 18	98 49	32 83	2 59	49	58	1 07	
Miner.....	77	66	3	47	99 94	2 22	97 72	32 57	2 08	61	71	1 06	
Miner.....	77	66	3	41	98 81	2 10	96 71	32 24	2 36	53	62	1 05	
Miner.....	77	74	3	43	93 80	2 04	91 76	30 58	2 13	56	58	1 00	
Miner.....	76	65	3	36	89 95	2 00	87 95	29 32	2 44	47	55	97	
Miner.....	78	76	3	36	83 03	1 86	81 17	27 06	2 25	46	47	88	
Miner.....	77	66	3	27	81 51	1 80	79 71	26 57	2 95	35	41	87	
Miner.....	77	74	3	36	81 34	1 72	79 62	26 54	2 21	46	49	87	
Miner.....	77	66	3	37	78 18	1 66	76 52	25 51	2 07	43	56	83	
Miner.....	77	66	3	36	77 59	1 72	75 87	25 29	2 11	47	55	82	
Miner.....	79	77	3	36	76 61	1 60	75 01	25 00	2 08	46	47	82	
Miner.....	77	66	3	30	73 55	1 58	71 97	23 99	2 40	39	45	78	
Miner.....	77	67	3	29	67 81	1 52	66 29	22 10	2 23	38	43	72	
Miner.....	77	66	3	35	67 19	1 34	65 85	21 95	1 88	45	53	72	
Miner.....	78	76	3	38	59 31	1 32	57 99	19 33	1 53	49	50	63	
Miner.....	78	76	3	27	56 34	84	55 50	18 50	2 05	35	36	60	

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner.....	75	63	2	3	32	\$50 37	\$1 00	\$49 37	\$16 46	\$1 54	43	51	\$0 56
Miner.....	52	50	2	2	45	136 38	2 82	133 56	66 78	2 96	87	90	2 19
Miner.....	52	50	2	2	44	121 68	2 42	119 26	59 63	2 71	85	88	1 95
Miner.....	52	50	2	2	46	116 74	2 58	114 16	57 08	2 48	88	92	1 87
Miner.....	51	50	2	2	36	115 85	2 44	113 41	56 70	3 15	71	72	1 86
Miner.....	52	50	2	2	46	101 22	2 18	99 04	49 52	2 15	88	92	1 62
Miner.....	52	51	2	2	41	100 25	2 14	98 11	49 05	2 39	79	80	1 61
Miner.....	52	50	2	2	38	96 89	2 04	94 85	47 42	2 49	74	76	1 55
Miner.....	52	51	2	2	26	91 44	1 84	89 60	44 70	3 44	50	51	1 46
Miner.....	52	53	2	2	34	88 73	1 74	86 99	43 49	2 56	65	64	1 40
Miner.....	50	39	2	2	34	88 65	1 96	86 69	43 34	2 55	68	87	1 42
Miner.....	53	54	2	2	34	85 84	1 88	83 96	41 98	2 47	64	63	1 35
Miner.....	50	39	2	2	30	83 72	1 72	82 00	41 00	2 73	60	77	1 34
Miner.....	52	50	2	2	35	82 46	1 76	80 70	40 35	2 81	67	70	1 32
Miner.....	52	50	2	2	25	78 68	1 58	77 10	38 55	3 08	48	50	1 26
Miner.....	51	50	2	2	33	76 69	1 23	75 41	37 70	2 29	64	66	1 24
Miner.....	50	39	2	2	36	76 27	1 70	74 57	37 28	2 07	72	92	1 22
Miner.....	51	50	2	2	28	70 61	1 56	69 05	34 52	2 46	55	56	1 13
Miner.....	52	50	2	2	30	68 19	1 44	66 75	33 37	2 23	58	60	1 09
Miner.....	51	50	2	2	28	66 42	1 46	64 96	32 48	2 32	55	56	1 06
Miner.....	51	50	2	2	32	64 36	1 42	62 94	31 47	1 97	63	64	1 03
Miner.....	52	50	2	2	31	63 85	1 26	62 59	31 29	2 02	60	62	1 03
Miner.....	50	39	2	2	25	63 67	1 42	62 25	31 12	2 49	50	64	1 02
Miner.....	51	50	2	2	34	63 64	1 42	62 22	31 11	1 83	66	68	1 02
Miner.....	50	39	2	2	33	55 19	1 08	54 11	27 05	1 64	66	85	88
Miner.....	52	51	2	2	22	54 76	1 12	53 64	26 82	2 44	42	43	88
Miner.....	51	50	2	2	22	54 09	30	53 19	26 59	2 42	43	44	87
Miner.....	50	39	2	2	31	53 80	1 04	52 76	26 38	1 70	62	79	86
Miner.....	52	50	2	2	30	53 50	1 18	52 32	26 16	1 74	58	60	86
Miner.....	50	39	2	2	22	53 42	1 10	52 32	26 16	2 38	44	56	86
Miner.....	50	39	2	2	32	53 50	1 18	52 32	26 16	1 63	64	82	86
Miner.....	52	50	2	2	26	50 23	1 10	49 13	24 56	1 89	50	52	81
Miner.....	52	51	2	2	26	49 96	1 12	48 84	24 42	1 83	50	51	80
Miner.....	51	50	2	2	27	49 08	1 04	48 04	24 02	1 78	53	54	79
Miner.....	52	53	2	2	25	46 30	88	45 42	22 71	1 82	48	47	73
Miner.....	52	50	2	2	20	32 27	72	31 55	15 77	1 57	38	40	51
Miner.....	26	27	1	1	19	64 45	19	64 26	64 26	3 33	73	70	2 07
Miner.....	27	27	1	1	22	58 55	1 30	57 25	57 25	4 60	81	81	1 85
Miner.....	26	27	1	1	18	52 10	18	51 92	51 92	4 55	69	66	1 67
Miner.....	26	27	1	1	21	48 30	21	48 09	48 09	2 29	81	78	1 55
Miner.....	27	26	1	1	21	48 20	1 08	47 12	47 12	2 15	78	81	1 52
Miner.....	27	27	1	1	17	47 97	1 06	46 91	46 91	2 76	63	63	1 51
Miner.....	25	16	1	1	13	45 55	90	44 65	44 65	3 34	52	81	1 44
Miner.....	26	27	1	1	17	44 70	17	44 53	44 53	2 62	65	63	1 44
Miner.....	26	27	1	1	18	44 65	18	44 47	44 47	2 47	69	67	1 43
Miner.....	26	27	1	1	18	44 55	18	44 37	44 37	2 46	69	66	1 43
Miner.....	26	27	1	1	17	43 69	17	43 52	43 52	2 56	65	63	1 40
Miner.....	26	27	1	1	17	42 88	11	42 77	42 77	2 51	65	63	1 38
Miner.....	27	27	1	1	24	45 07	84	42 23	42 23	1 79	89	89	1 36
Miner.....	26	26	1	1	19	42 48	94	41 54	41 54	2 18	73	73	1 38

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.												
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.	
Miner	26	26	1	14	\$41 80	\$0 92	\$40 88	\$40 88	\$2 92	54	54	\$1 36	
Miner	27	27	1	17	41 67	92	40 75	40 75	2 44	63	63	1 32	
Miner	26	27	1	17	36 77	79	35 98	35 98	2 11	65	63	1 16	
Miner	25	16	1	12	34 13	68	33 45	33 45	2 45	48	75	1 06	
Miner	26	26	1	13	34 02	76	33 26	33 26	2 56	50	50	1 11	
Miner	26	26	1	11	33 80	76	33 04	33 04	3 00	44	75	1 06	
Miner	25	16	1	17	32 15	17	31 98	31 98	1 88	65	63	1 03	
Miner	26	27	1	11	32 46	64	31 82	31 82	2 89	43	43	1 06	
Miner	26	26	1	16	31 64	70	30 94	30 94	1 93	62	62	1 03	
Miner	26	26	1	18	30 98	70	30 28	30 28	1 68	72	78	1 01	
Miner	25	23	1	16	29 99	16	29 83	29 83	1 86	62	59	96	
Miner	26	27	1	16	28 99	06	28 93	28 93	2 89	38	37	93	
Mine	25	24	1	15	28 03	62	27 41	27 41	1 82	60	63	91	
Miner	25	24	1	13	27 91	56	27 35	27 35	2 10	52	54	91	
Miner	26	26	1	12	27 45	62	26 83	26 83	2 23	46	46	89	
Miner	26	26	1	10	27 34	56	26 78	26 78	2 68	38	38	89	
Miner	27	27	1	15	26 85	58	26 27	26 27	1 75	56	56	85	
Miner	27	27	1	17	26 01	58	25 43	25 43	1 51	63	63	82	
Miner	25	23	1	17	25 48	50	24 98	24 98	1 47	68	74	83	
Miner	27	27	1	16	25 44	54	24 90	24 90	1 55	59	59	80	
Miner	25	16	1	9	24 61	54	24 07	24 07	2 67	36	56	78	
Miner	26	26	1	7	24 26	54	23 72	23 72	3 53	27	27	79	
Miner	25	16	1	14	24 12	54	23 58	23 58	1 68	56	87	76	
Miner	27	27	1	14	22 89	50	22 39	22 39	1 60	52	52	72	
Miner	25	16	1	13	20 88	46	20 42	20 42	1 57	52	81	66	
Miner	27	27	1	13	20 39	46	19 93	19 93	1 53	48	48	64	
Miner	27	27	1	15	20 03	44	19 59	19 59	1 30	56	56	63	
Miner	25	16	1	6	19 65	38	19 27	19 27	3 21	24	37	62	
Mine	25	16	1	10	14 36	28	14 08	14 08	1 41	40	62	45	
Miner	25	16	1	8	8 82	20	8 62	8 62	1 08	32	50	28	

Table V.—Continued.

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days										
Engineer .....	306	293	12	355½	\$75 00	.....	\$826 13	\$68 84	\$2 32	116	\$2 26
Engineer .....	152	151	6	161	75 00	.....	344 56	57 43	\$2 14	105	1 90
Engineer .....	154	150	6	161	.....	\$2 00	322 00	53 67	\$2 00	105	1 75
Engineer .....	129	127	5	81¼	.....	\$2 00	180 50	36 10	\$2 00	63	1 18
Engineer .....	104	103	4	73¾	.....	\$2 00	133 87	33 47	\$1 83	70	1 09
Engineer .....	51	50	2	35	.....	\$2 00	70 00	35 00	\$2 00	69	1 15
Engineer .....	51	50	2	31	.....	\$2 00	42 00	21 00	\$2 00	41	69
Engineer .....	26	26	1	30	75 00	.....	75 00	75 00	\$2 50	115	2 50
Engineer .....	25	25	1	10	.....	\$2 00	20 00	20 00	\$2 00	40	65
Boss, pit.....	306	293	12	295	.....	3 00 2 00	787 00	65 58	2 66	96	2 16
Boss, pit.....	104	103	4	1 6	.....	3 00	318 00	79 50	3 00	102	2 59
Boss, pit.....	26	26	1	23	.....	3 00	69 00	69 00	3 00	88	77
Boss, top.....	306	293	12	307	.....	2 00	587 75	48 98	1 91	100	1 61
Boss, top.....	180	176	7	193½	.....	2 25 1 75	426 42	60 92	\$2 20	108	1 98
Boss, top.....	77	74	3	58	.....	2 00	116 00	38 67	\$2 00	75	1 27
Boss, top.....	52	53	2	48½	.....	2 25	109 12	54 56	\$2 25	93	1 79
Boss, night.....	206	193	8	225¾	.....	2 50 2 00	552 25	69 03	\$2 44	110	2 25
Boss, night.....	177	173	7	141	.....	3 00 2 00	396 50	56 64	\$3 81	80	1 87
Boss, night.....	25	24	1	27	.....	3 00	81 00	81 00	\$3 00	108	2 70
Boss, bottom.....	206	193	8	174¾	.....	2 50 1 50	379 87	47 48	\$2 12	85	1 55
Boss, bottom.....	154	150	6	152¾	.....	2 50	383 74	63 96	\$2 51	99	2 09
Boss, bottom.....	129	126	5	121	.....	3 00	363 00	72 60	3 00	94	2 37
Boss, bottom.....	104	100	4	80¾	.....	2 50 2 00	175 50	43 87	\$2 19	77	1 44
Boilermaker ...	206	193	8	181¼	.....	2 75	498 44	62 31	2 75	88	2 03
Carpenter .....	256	244	10	192	65 00	2 50	462 89	46 29	2 41	75	1 52
Carpenter .....	129	124	5	48¾	.....	2 00	95 50	19 10	\$2 40	38	62
Carpenter .....	104	103	4	82¼	.....	2 00 1 75	150 44	37 61	1 83	79	1 22
Carpenter .....	52	53	2	29¾	.....	2 25	65 80	32 90	\$2 25	56	1 08
Carpenter .....	25	26	1	11	.....	2 50	27 50	27 50	2 50	44	89
Mason .....	203	189	7	114¾	.....	3 50	401 50	57 31	3 50	57	1 66
Mason .....	52	51	2	32¾	.....	3 00	98 25	49 12	3 00	63	1 61
Mason .....	26	26	1	12¾	.....	3 00	38 25	38 25	3 00	49	1 23
Blacksmith.....	206	193	8	189	.....	2 00 1 75	371 25	46 41	1 96	92	1 53
Blacksmith.....	154	140	6	96½	.....	2 25	217 12	36 19	2 25	63	1 19
Blacksmith.....	77	74	3	53¾	.....	2 50	134 37	44 79	2 50	70	1 48
Weighman .....	206	193	8	143	.....	2 00 1 50	262 9	32 86	1 84	69	1 07
Weighman .....	129	127	5	66¾	.....	1 90 1 66	117 27	23 43	1 77	52	77
Weighman .....	102	100	4	71	45 00	.....	123 44	30 86	1 74	70	1 01
Weighman .....	102	99	4	68¾	.....	1 75 1 50	118 37	29 59	1 72	67	97
Weighman .....	74	74	3	85	50 00	.....	142 86	47 62	1 68	115	1 60
Mast'r meeh'nic	156	153	6	95½	75 00	.....	247 55	41 26	2 59	61	1 35
Well sinker ....	130	127	5	81¼	.....	3 00	243 75	48 75	3 00	63	1 59
Well sinker ....	130	127	5	79	.....	3 00	237 00	47 50	3 00	61	1 55
Well sinker ....	78	76	3	68¾	.....	3 00	206 25	68 75	3 00	88	2 24
Well sinker ....	51	50	2	38¾	.....	3 00	116 25	58 12	3 00	76	1 91
Well sinker ....	52	50	2	21	.....	3 00 1 50	55 50	27 75	2 64	40	91
Well sinker ....	25	24	1	22¼	.....	3 00	66 75	66 75	3 00	89	2 23
Well sinker ....	25	24	1	12	.....	3 00	36 00	36 00	3 00	48	1 20
Box-car man....	154	150	6	141½	.....	1 60 1 50	223 40	37 23	3 58	92	1 21
Box-car man....	26	27	1	9	.....	1 60	14 40	14 40	1 60	35	.....

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					Mos.	Days	High-est.					
Surveyor .....	79	80	3	75¾	\$60 00	\$2 00	.....	\$151 50	\$50 50	\$2 00	96	\$1 66		
Surveyor .....	26	27	1	27	50 00	.....	.....	50 00	50 00	1 85	104	1 61		
Surveyor .....	25	24	1	24	45 00	.....	.....	45 00	45 00	1 87	96	1 45		
Surveyor, help'r	77	77	3	73	25 00	2 00	.....	94 00	31 33	1 29	95	1 01		
Laborer, below.	306	293	12	283¾	.....	2 00	.....	567 50	46 29	2 00	93	1 55		
Laborer, below.	206	193	8	197	.....	2 00	.....	394 00	49 25	2 00	96	1 61		
Laborer, below.	206	193	8	187½	.....	2 00	.....	375 00	46 87	2 00	91	1 53		
Laborer, below.	206	193	8	123¾	.....	2 25	\$2 00	356 75	32 09	2 00	60	1 04		
Laborer, below.	181	169	7	164	.....	2 25	2 00	359 85	51 41	2 19	91	1 68		
Laborer, below.	181	170	7	153¾	.....	2 00	.....	306 50	43 79	2 00	85	1 43		
Laborer, below.	180	166	7	149	.....	2 00	1 50	284 00	40 57	1 91	83	1 33		
Laborer, below.	180	166	7	119½	.....	2 00	.....	238 50	34 07	2 00	66	1 11		
Laborer, below.	154	140	6	152¾	.....	2 00	.....	305 50	50 92	2 00	99	1 67		
Laborer, below.	156	144	6	142¾	.....	2 00	.....	285 50	47 58	2 00	92	1 55		
Laborer, below.	154	140	6	115¾	.....	2 00	.....	230 50	38 42	2 00	75	1 26		
Laborer, below.	129	126	5	126¾	.....	2 00	.....	253 50	50 70	2 00	98	1 66		
Laborer, below.	129	127	5	108½	.....	2 00	.....	216 50	43 30	2 00	84	1 42		
Laborer, below.	127	123	5	76¾	.....	2 00	.....	153 50	30 70	2 00	60	1 00		
Laborer, below.	104	100	4	103¾	.....	2 00	.....	207 50	51 87	2 00	99	1 77		
Laborer, below.	104	103	4	96	.....	2 25	2 00	196 81	49 20	2 05	92	1 60		
Laborer, below.	104	103	4	97¾	.....	2 00	.....	195 50	48 87	2 00	94	1 59		
Laborer, below.	104	103	4	97	.....	2 00	.....	194 00	48 50	2 00	93	1 58		
Laborer, below.	104	103	4	82¾	.....	2 00	.....	165 50	41 37	2 00	80	1 35		
Laborer, below.	102	100	4	67½	.....	2 00	.....	135 00	33 75	2 00	66	1 10		
Laborer, below.	104	103	4	59	.....	2 00	.....	118 00	29 50	2 00	57	96		
Laborer, below.	77	74	3	75¾	.....	2 00	.....	151 50	50 50	2 00	98	1 66		
Laborer, below.	77	74	3	71¾	.....	2 00	.....	149 50	49 83	2 00	97	1 64		
Laborer, below.	77	74	3	68½	.....	2 00	.....	137 00	45 67	2 00	89	1 51		
Laborer, below.	77	74	3	67½	.....	2 00	.....	135 00	45 00	2 00	88	1 48		
Laborer, below.	77	74	3	66½	.....	2 00	1 00	129 50	43 17	1 95	86	1 42		
Laborer, below.	77	74	3	64¾	.....	2 00	.....	128 50	42 83	2 00	83	1 41		
Laborer, below.	77	74	3	63¾	.....	2 00	.....	126 50	42 17	2 00	82	1 39		
Laborer, below.	77	76	3	59¾	.....	2 00	.....	119 50	39 83	2 00	78	1 30		
Laborer, below.	77	77	3	57¾	.....	2 00	.....	115 50	38 50	2 00	75	1 26		
Laborer, below.	77	77	3	54½	.....	2 00	.....	109 00	36 33	2 00	71	1 18		
Laborer, below.	79	77	3	46¾	.....	2 00	.....	92 50	30 83	2 00	59	1 01		
Laborer, below.	77	76	3	52¾	.....	2 00	1 50	90 50	30 17	1 73	68	98		
Laborer, below.	52	51	2	59	.....	2 00	.....	118 00	59 00	2 00	113	1 93		
Laborer, below.	52	51	2	57¾	.....	2 00	.....	114 50	57 25	2 00	110	1 88		
Laborer, below.	52	50	2	54	.....	2 00	.....	108 00	54 00	2 00	104	1 74		
Laborer, below.	52	51	2	54	.....	2 00	.....	108 00	54 00	2 00	104	1 77		
Laborer, below.	50	49	2	50¼	.....	2 00	.....	100 50	50 25	2 00	100	1 65		
Laborer, below.	50	49	2	50¼	.....	2 00	.....	100 50	50 25	2 00	100	1 65		
Laborer, below.	52	53	2	46¾	.....	2 25	2 00	99 87	49 93	2 14	90	1 64		
Laborer, below.	52	50	2	48¾	.....	2 00	.....	96 50	48 25	2 00	93	1 58		
Laborer, below.	52	50	2	42½	.....	2 00	.....	85 00	42 50	2 00	82	1 57		
Laborer, below.	50	49	2	41¾	.....	2 00	.....	83 50	41 75	2 00	83	1 37		
Laborer, below.	52	50	2	41¾	.....	2 00	.....	82 50	41 25	2 00	79	1 35		
Laborer, below.	52	50	2	41	.....	2 00	.....	82 00	41 00	2 00	79	1 34		



Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days										
Laborer, below.	52	50	2	39	.....	\$2 00	.....	\$78 00	\$89 00	\$2 00	75	\$1 28
Laborer, below.	52	50	2	38	.....	2 00	.....	76 00	88 00	2 00	73	1 25
Laborer, below.	52	51	2	37	.....	2 00	.....	74 00	87 00	2 00	71	1 21
Laborer, below.	52	50	2	34½	.....	2 00	.....	68 50	84 25	2 00	66	1 12
Laborer, below.	50	49	2	31	.....	2 00	.....	66 00	83 00	2 00	66	1 08
Laborer, below.	50	49	2	33	.....	2 00	.....	66 00	83 00	2 00	66	1 08
Laborer, below.	52	51	2	32½	.....	2 00	.....	65 00	82 50	2 00	62	1 06
Laborer, below.	51	50	2	32	.....	2 00	.....	64 00	82 00	2 00	63	1 05
Laborer, below.	52	50	2	32	.....	2 00	.....	64 00	82 00	2 00	62	1 05
Laborer, below.	52	50	2	25¾	.....	2 50	\$2 00	61 50	80 75	2 39	50	1 01
Laborer, below.	52	53	2	29	.....	2 25	2 00	60 87	80 43	2 10	56	98
Laborer, below.	52	50	2	29¾	.....	2 00	.....	59 00	79 50	2 00	57	97
Laborer, below.	52	50	2	29¾	.....	2 00	.....	58 50	79 25	2 00	56	96
Laborer, below.	52	52	2	28	.....	2 00	.....	56 00	78 00	2 00	54	90
Laborer, below.	52	50	2	21	.....	2 00	.....	42 00	21 00	2 00	40	69
Laborer, below.	26	27	1	30	.....	2 00	.....	60 00	60 00	2 00	115	1 93
Laborer, below.	27	27	1	29¾	.....	2 00	.....	59 00	59 00	2 00	109	1 90
Laborer, below.	25	23	1	29¼	.....	2 00	.....	58 50	58 50	2 00	117	1 95
Laborer, below.	25	24	1	28¾	.....	2 00	.....	57 50	57 00	2 00	115	1 92
Laborer, below.	27	27	1	27¾	.....	2 00	.....	55 50	55 50	2 00	103	1 79
Laborer, below.	27	27	1	27	.....	2 00	.....	54 00	54 00	2 00	100	1 74
Laborer, below.	25	24	1	26	.....	2 00	.....	52 00	52 00	2 00	104	1 73
Laborer, below.	27	26	1	25¾	.....	2 00	.....	50 50	50 50	2 00	94	1 63
Laborer, below.	27	26	1	25¼	.....	2 00	.....	50 50	50 50	2 00	94	1 63
Laborer, below.	27	26	1	25¼	.....	2 00	.....	50 50	50 50	2 00	94	1 63
Laborer, below.	27	27	1	25	.....	2 00	.....	50 00	50 00	2 00	98	1 61
Laborer, below.	25	23	1	24¾	.....	2 00	.....	49 50	49 50	2 00	99	1 65
Laborer, below.	25	24	1	24½	.....	2 00	.....	49 00	49 00	2 00	98	1 63
Laborer, below.	25	24	1	24½	.....	2 00	.....	49 00	49 00	2 00	98	1 63
Laborer, below.	27	26	1	24¼	.....	2 00	.....	48 50	48 50	2 00	90	1 56
Laborer, below.	26	27	1	23	.....	2 00	.....	46 00	46 00	2 00	88	1 48
Laborer, below.	27	26	1	23	.....	2 00	.....	46 00	46 00	2 00	85	1 48
Laborer, below.	27	26	1	23	.....	2 00	.....	46 00	46 00	2 00	85	1 48
Laborer, below.	25	24	1	23	.....	2 00	.....	46 00	46 00	2 00	92	1 53
Laborer, below.	27	27	1	23	.....	2 00	.....	46 00	46 00	2 00	85	1 48
Laborer, below.	27	26	1	22¾	.....	2 00	.....	45 50	45 50	2 00	84	1 47
Laborer, below.	27	26	1	22	.....	2 00	.....	44 00	44 00	2 00	81	1 42
Laborer, below.	27	26	1	22	.....	2 00	.....	44 00	44 00	2 00	81	1 42
Laborer, below.	25	23	1	22	.....	2 00	.....	44 00	44 00	2 00	88	1 47
Laborer, below.	25	24	1	21¾	.....	2 00	.....	42 50	42 50	2 00	85	1 42
Laborer, below.	27	26	1	20¾	.....	2 00	.....	41 50	41 50	2 00	77	1 34
Laborer, below.	27	26	1	19	.....	2 00	.....	38 00	38 00	2 00	70	1 23
Laborer, below.	25	24	1	18¾	.....	2 00	.....	37 00	37 00	2 00	74	1 19
Laborer, below.	27	26	1	18½	.....	2 00	.....	37 00	37 00	2 00	69	1 19
Laborer, below.	27	27	1	22	.....	2 00	1 50	37 00	37 00	1 68	81	1 19
Laborer, below.	25	26	1	18	.....	2 00	.....	36 00	36 00	2 00	72	1 16
Laborer, below.	27	26	1	17	.....	2 00	.....	34 00	34 00	2 00	63	1 10
Laborer, below.	25	23	1	17	.....	2 00	.....	34 00	34 00	2 00	68	1 13
Laborer, below.	25	26	1	17	.....	2 00	.....	34 00	34 00	2 00	68	1 10
Laborer, below.	25	24	1	16¾	.....	2 00	.....	32 50	32 50	2 00	65	1 05

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Laborer, below.	25	24	1	16½	.....	.....	.....	\$2 00	.....	\$32 50	32 00	2 00	65	\$1 08								
Laborer, below.	27	27	1	16	.....	.....	.....	2 00	.....	32 00	32 00	2 00	59	1 03								
Laborer, below.	27	27	1	16	.....	.....	.....	2 00	.....	32 00	32 00	2 00	59	1 03								
Laborer, below.	25	26	1	16	.....	.....	.....	2 00	.....	32 00	32 00	2 00	64	1 03								
Laborer, below.	25	24	1	15	.....	.....	.....	2 00	.....	30 00	30 00	2 00	60	1 00								
Laborer, below.	25	23	1	15	.....	.....	.....	2 00	.....	30 00	30 00	2 00	60	1 00								
Laborer, below.	25	23	1	15	.....	.....	.....	2 00	.....	30 00	30 00	2 00	60	1 00								
Laborer, below.	26	26	1	14½	.....	.....	.....	2 00	.....	29 50	29 50	2 00	57	98								
Laborer, below.	27	26	1	14½	.....	.....	.....	2 00	.....	29 00	29 00	2 00	54	94								
Laborer, below.	25	24	1	14	.....	.....	.....	2 00	.....	28 00	28 00	2 00	56	90								
Laborer, below.	27	26	1	14	.....	.....	.....	2 00	.....	28 00	28 00	2 00	52	90								
Laborer, below.	27	26	1	14	.....	.....	.....	2 00	.....	28 00	28 00	2 00	52	90								
Laborer, below.	25	24	1	14	.....	.....	.....	2 00	.....	28 00	28 00	2 00	56	93								
Laborer, below.	25	26	1	14	.....	.....	.....	2 00	.....	28 00	28 00	2 00	56	90								
Laborer, below.	27	26	1	13½	.....	.....	.....	2 00	.....	26 50	26 50	2 00	49	85								
Laborer, below.	27	27	1	13½	.....	.....	.....	2 00	.....	26 50	26 50	2 00	49	85								
Laborer, below.	27	27	1	12½	.....	.....	.....	2 00	.....	25 50	25 50	2 00	47	82								
Laborer, below.	25	24	1	12½	.....	.....	.....	2 00	.....	25 00	25 00	2 00	50	85								
Laborer, below.	27	27	1	12½	.....	.....	.....	2 00	.....	24 50	24 50	2 00	45	79								
Laborer, below.	25	24	1	12	.....	.....	.....	2 00	.....	24 00	24 00	2 00	48	77								
Laborer, below.	25	24	1	12	.....	.....	.....	2 00	.....	24 00	24 00	2 00	48	80								
Laborer, below.	25	26	1	12	.....	.....	.....	2 00	.....	24 00	24 00	2 00	48	77								
Laborer, below.	25	26	1	12	.....	.....	.....	2 00	.....	24 00	24 00	2 00	48	77								
Laborer, below.	25	24	1	11	.....	.....	.....	2 00	.....	22 00	22 00	2 00	44	73								
Laborer, below.	25	24	1	10½	.....	.....	.....	2 00	.....	20 50	20 50	2 00	41	68								
Laborer, below.	26	27	1	10	.....	.....	.....	2 00	.....	20 00	20 00	2 00	42	64								
Laborer, below.	26	27	1	10	.....	.....	.....	2 00	.....	20 00	20 00	2 00	42	64								
Laborer, below.	26	27	1	10	.....	.....	.....	2 00	.....	20 00	20 00	2 00	42	64								
Laborer, below.	25	23	1	10	.....	.....	.....	2 00	.....	20 00	20 00	2 00	40	67								
Laborer, below.	25	26	1	10	.....	.....	.....	2 00	.....	20 00	20 00	2 00	40	65								
Laborer, below.	26	27	1	9½	.....	.....	.....	2 00	.....	19 50	19 50	2 00	37	63								
Laborer, below.	27	26	1	9½	.....	.....	.....	2 00	.....	19 50	19 50	2 00	36	63								
Laborer, below.	25	24	1	11	\$45 00	.....	.....	19 04	19 04	1 37	44	63										
Laborer, below.	27	26	1	9½	.....	.....	.....	19 00	19 00	2 00	35	61										
Laborer, below.	26	27	1	9	.....	.....	.....	18 00	18 00	2 00	35	58										
Laborer, below.	26	27	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	35	58								
Laborer, below.	26	26	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	35	60								
Laborer, below.	27	26	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	33	58								
Laborer, below.	27	26	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	33	58								
Laborer, below.	27	27	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	33	58								
Laborer, below.	25	23	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	36	60								
Laborer, below.	25	26	1	9	.....	.....	.....	2 00	.....	18 00	18 00	2 00	36	58								
Laborer, below.	25	24	1	8½	.....	.....	.....	2 00	.....	17 50	17 50	2 00	35	58								
Timberman.....	306	293	12	270	.....	.....	.....	540 00	45 00	2 00	88	1 48										
Timberman.....	206	193	8	207½	.....	.....	.....	414 50	51 81	2 00	101	1 69										
Timberman ....	206	193	8	199¾	.....	.....	.....	399 50	49 94	2 00	97	1 63										
Timberman ....	206	193	8	193¾	.....	.....	.....	386 50	48 31	2 00	94	1 58										
Timberman ....	206	193	8	197¾	.....	.....	\$1 75	375 00	46 87	1 90	96	1 53										
Timberman.....	186	154	6	135	.....	.....	.....	270 00	45 00	2 00	87	1 47										
Timberman.....	129	127	5	118	.....	.....	.....	266 05	53 21	2 25	92	1 74										

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	Nc. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	Low-est.					
Timberman .....	104	100	4	91	.....	\$2 00	.....	.....	\$182 00	\$45 50	\$2 00	87	\$1 49
Timberman .....	103	100	4	81	.....	2 00	.....	.....	162 00	40 50	2 00	79	1 33
Timberman .....	77	77	3	68%	.....	2 00	.....	.....	137 50	45 83	2 00	89	1 49
Timberman .....	77	77	3	61	.....	2 00	.....	.....	122 00	40 67	2 00	79	1 34
Timberman .....	77	77	3	50	.....	2 00	.....	.....	100 00	33 33	2 00	65	1 10
Timberman .....	77	76	3	35%	.....	4 00	\$2 00	.....	90 50	30 17	2 57	46	97
Timberman .....	52	53	2	41	.....	2 00	.....	.....	82 00	41 00	2 00	79	1 34
Timberman .....	48	48	2	20	.....	2 00	.....	.....	40 00	20 00	2 00	42	68
Timberman .....	27	26	1	21%	.....	2 00	.....	.....	43 50	43 50	2 00	81	1 40
Roadman .....	206	193	8	185%	.....	2 25	.....	.....	417 36	52 17	2 25	90	1 72
Roadman .....	206	193	8	181	.....	2 25	2 00	.....	408 79	51 10	2 22	89	2 68
Roadman .....	181	167	7	152%	.....	2 25	.....	.....	343 68	49 10	2 25	81	1 61
Roadman .....	156	154	6	113	.....	2 25	2 00	.....	226 37	37 73	2 00	72	1 23
Roadman .....	154	152	6	95	.....	2 00	.....	.....	190 00	31 67	2 00	62	1 03
Roadman .....	129	127	5	69%	.....	2 00	.....	.....	138 50	27 70	2 00	54	90
Roadman .....	102	100	4	101%	.....	2 00	.....	.....	202 50	50 62	2 00	99	1 66
Roadman .....	102	100	4	81	.....	2 00	.....	.....	168 00	42 00	2 00	82	1 33
Roadman .....	77	77	3	52%	.....	2 25	2 00	.....	109 62	36 54	2 09	68	1 19
Roadman .....	77	76	3	24%	.....	2 25	.....	.....	55 12	18 37	2 25	32	60
Roadman .....	52	51	2	37%	.....	2 50	2 00	.....	84 00	42 00	2 24	72	1 38
Roadman .....	50	49	2	39%	.....	2 00	.....	.....	79 50	39 75	2 00	80	1 30
Roadman .....	52	51	2	26	.....	2 25	2 00	.....	57 00	28 50	2 19	50	93
Roadman .....	25	26	1	7%	.....	2 00	.....	.....	14 50	14 50	2 00	29	47
Mule tender .....	281	273	11	273	\$40 00	.....	.....	.....	405 93	36 90	1 49	97	1 22
Mule tender .....	129	126	5	143	45 00	.....	.....	.....	210 49	52 10	1 47	111	1 38
Mule tender .....	129	126	5	67%	45 00	3 00	2 00	.....	129 96	25 99	1 92	52	85
Mule tender .....	77	76	3	61	45 00	.....	.....	.....	89 85	21 95	1 47	79	98
Cager .....	206	193	8	165%	.....	2 25	.....	.....	372 35	46 54	2 25	80	1 52
Cager .....	181	169	7	157%	.....	1 75	.....	.....	275 18	39 31	1 75	87	1 24
Cager .....	155	143	6	106	.....	1 75	.....	.....	185 50	30 92	1 75	68	1 01
Cager .....	130	127	5	126	.....	2 00	.....	.....	252 00	50 40	2 00	97	1 65
Cager .....	77	77	3	70%	.....	2 00	.....	.....	141 50	47 17	2 00	92	1 54
Cager .....	52	53	2	30%	.....	2 00	.....	.....	60 50	30 25	2 00	58	99
Cager .....	27	26	1	13%	.....	1 75	.....	.....	23 19	23 19	1 75	49	75
Laborer, top .....	257	244	10	245	.....	1 50	.....	.....	367 50	36 75	1 50	98	1 20
Laborer, top .....	206	193	8	238	.....	1 75	.....	.....	416 45	52 06	1 75	116	1 70
Laborer, top .....	206	193	8	186%	.....	1 75	.....	.....	326 81	40 85	1 75	91	1 33
Laborer, top .....	206	193	8	182%	.....	1 75	1 50	.....	293 56	36 70	1 61	88	1 20
Laborer, top .....	206	193	8	172%	.....	1 50	.....	.....	259 11	32 39	1 50	84	1 06
Laborer, top .....	206	193	8	172%	.....	1 50	.....	.....	258 37	32 30	1 50	84	1 05
Laborer, top .....	206	193	8	160%	.....	1 60	1 50	.....	257 35	32 17	1 60	78	1 05
Laborer, top .....	206	193	8	173%	40 00	2 25	1 48	.....	201 58	25 20	1 16	84	66
Laborer, top .....	181	167	7	182%	.....	2 00	1 50	.....	313 37	44 77	1 73	101	1 46
Laborer, top .....	181	169	7	161%	.....	1 75	.....	.....	288 32	41 19	1 75	91	1 34
Laborer, top .....	181	169	7	186%	.....	1 50	.....	.....	279 74	39 96	1 50	103	1 30
Laborer, top .....	180	166	7	163%	.....	1 60	1 50	.....	256 75	36 68	1 57	91	1 20
Laborer, top .....	179	166	7	160%	.....	1 50	.....	.....	241 50	34 50	1 50	90	1 13
Laborer, top .....	179	175	7	149%	.....	1 50	.....	.....	223 87	31 95	1 50	83	1 04
Laborer, top .....	181	167	7	121%	.....	1 50	.....	.....	184 44	26 37	1 50	67	86
Laborer, top .....	180	166	7	112%	.....	1 60	.....	.....	179 60	25 66	1 60	62	84

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Ave age daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Laborer, top....	154	140	6	150¾	.....	12 00	.....	\$301 50	\$50 25	\$2 00	98	\$1 65
Laborer, top....	156	154	6	153¾	.....	1 75	\$1 50	267 56	44 59	1 75	98	1 75
Laborer, top....	154	140	6	158¾	.....	1 50	.....	258 12	39 69	1 50	103	1 30
Laborer, top....	156	144	6	141¾	.....	1 50	.....	212 62	35 41	1 50	91	1 16
Laborer, top....	156	144	6	124¾	.....	1 50	.....	187 11	31 18	1 50	80	1 02
Laborer, top....	153	139	6	124¾	.....	1 50	.....	186 74	31 12	1 50	81	1 02
Laborer, top....	155	143	6	77½	.....	2 00	.....	155 00	25 82	2 00	50	84
Laborer, top....	154	150	6	84¾	.....	2 00	1 50	136 62	22 77	1 63	55	74
Laborer, top....	154	143	6	77¾	.....	2 00	1 60	133 60	22 27	1 73	50	73
Laborer, top....	129	126	5	135	.....	2 00	.....	270 00	54 00	2 00	105	1 76
Laborer, top....	130	127	5	140	.....	1 75	.....	245 00	49 00	1 75	108	1 60
Laborer, top....	128	125	5	134	.....	1 50	.....	201 00	40 20	1 50	105	1 31
Laborer, top....	129	127	5	128	.....	1 50	.....	192 00	36 40	1 50	99	1 25
Laborer, top....	130	129	5	112¾	.....	1 50	.....	168 37	33 67	1 50	86	1 10
Laborer, top....	129	124	5	107½	.....	1 50	.....	161 25	32 25	1 50	83	1 05
Laborer, top....	129	126	5	104¾	.....	1 50	.....	156 37	31 27	1 50	79	1 02
Laborer, top....	129	126	5	102	.....	1 50	.....	153 00	30 60	1 50	81	1 00
Laborer, top....	129	126	5	75¾	.....	2 00	.....	150 50	30 10	2 00	58	98
Laborer, top....	129	126	5	95¾	.....	1 60	1 50	145 52	29 10	1 52	73	95
Laborer, top....	130	127	5	82	.....	2 00	1 50	145 00	29 00	1 77	63	95
Laborer, top....	129	126	5	90¾	.....	1 50	.....	136 13	27 27	1 50	70	89
Laborer, top....	129	126	5	88¾	.....	1 50	.....	132 74	26 55	1 50	69	87
Laborer, top....	129	126	5	84	.....	1 60	1 50	130 05	26 01	1 55	65	85
Laborer, top....	129	126	5	84¾	.....	1 50	.....	127 12	25 42	1 50	66	83
Laborer, top....	129	127	5	84	.....	1 50	.....	126 00	25 20	1 50	65	82
Laborer, top....	129	124	5	79¾	.....	1 50	.....	118 87	23 77	1 50	61	78
Laborer, top....	129	126	5	79	.....	1 50	.....	118 49	23 70	1 50	61	77
Laborer, top....	129	126	5	64¾	.....	2 00	1 50	104 61	20 92	1 63	50	68
Laborer, top....	102	99	4	89¾	.....	2 00	.....	179 00	44 75	2 00	88	1 63
Laborer, top....	104	100	4	101	.....	1 60	.....	161 60	40 40	1 60	97	1 32
Laborer, top....	100	100	4	92	.....	1 75	.....	161 00	40 25	1 75	92	1 37
Laborer, top....	104	100	4	75¾	.....	2 00	.....	151 50	37 87	2 00	73	1 24
Laborer, top....	104	100	4	91	.....	1 75	1 50	149 50	37 40	1 63	87	1 23
Laborer, top....	104	103	4	94¾	.....	1 50	.....	141 37	35 34	1 50	91	1 15
Laborer, top....	104	103	4	96	.....	1 40	.....	135 11	33 78	1 40	92	1 10
Laborer, top....	103	100	4	67¾	.....	2 00	.....	135 00	33 75	2 00	66	1 11
Laborer, top....	103	101	4	87¾	.....	1 50	.....	131 24	32 81	1 50	85	1 07
Laborer, top....	104	101	4	84¾	.....	1 60	1 50	130 90	32 73	1 54	81	1 06
Laborer, top....	104	100	4	77¾	.....	1 60	1 50	169 37	29 84	1 55	74	97
Laborer, top....	103	100	4	79¾	.....	1 50	.....	119 25	29 81	1 50	77	98
Laborer, top....	104	100	4	93¾	.....	1 25	.....	116 87	29 22	1 25	90	96
Laborer, top....	100	99	4	72¾	.....	2 50	1 50	112 74	28 18	1 56	73	94
Laborer, top....	104	102	4	54¾	.....	2 00	.....	109 00	27 25	2 00	52	89
Laborer, top....	104	100	4	69	.....	1 50	.....	103 49	25 87	1 50	66	85
Laborer, top....	79	77	3	78	.....	2 00	.....	156 00	52 00	2 00	99	1 69
Laborer, top....	77	76	3	69¾	.....	2 00	.....	139 50	46 33	2 00	91	1 51
Laborer, top....	77	74	3	69	.....	2 00	.....	138 00	46 00	2 00	90	1 52
Laborer, top....	79	77	3	67¾	.....	2 00	.....	134 50	44 83	2 00	85	1 46
Laborer, top....	77	74	3	67¾	.....	2 00	.....	134 50	44 83	2 00	85	1 46
Laborer, top....	79	77	3	65	.....	2 00	.....	130 00	43 33	2 00	82	1 41

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Laborer, top....	79	77	3	64%	.....	\$2 00	.....	\$128 50	\$42 83	\$2 00	81	\$1 40
Laborer, top....	78	76	3	80	.....	1 60	\$1 50	126 00	42 00	1 58	103	1 38
Laborer, top....	77	74	3	61%	.....	2 00	.....	123 50	41 17	2 00	80	1 36
Laborer, top....	77	77	3	57%	.....	2 00	.....	115 00	38 33	2 00	75	1 26
Laborer, top....	79	77	3	57%	.....	2 00	.....	115 00	38 33	2 00	73	1 25
Laborer, top....	77	74	3	74%	.....	1 50	.....	111 75	37 25	1 50	97	1 23
Laborer, top....	77	76	3	74	.....	1 50	.....	111 00	37 00	1 50	96	1 21
Laborer, top....	79	77	3	53%	.....	2 00	.....	107 00	35 67	2 00	68	1 16
Laborer, top....	77	77	3	75%	.....	1 50	.....	103 62	34 54	1 50	98	1 13
Laborer, top....	77	76	3	68%	.....	1 50	.....	102 75	34 25	1 50	89	1 12
Laborer, top....	79	77	3	66%	.....	1 50	.....	99 75	33 25	1 50	84	1 04
Laborer, top....	77	74	3	49%	.....	2 00	.....	99 00	33 00	2 00	64	1 09
Laborer, top....	77	77	3	47%	.....	2 00	.....	95 50	31 83	2 00	62	1 04
Laborer, top....	78	76	3	47	.....	2 00	.....	94 00	31 33	2 00	60	1 02
Laborer, top....	78	76	3	57%	.....	1 60	1 50	87 15	29 05	1 52	74	95
Laborer, top....	79	77	3	56%	.....	1 50	.....	81 37	28 12	1 50	71	91
Laborer, top....	77	74	3	55%	.....	1 50	.....	83 62	27 87	1 50	72	91
Laborer, top....	77	76	3	45%	.....	1 75	.....	80 06	26 69	1 75	59	88
Laborer, top....	77	76	3	39%	.....	2 00	.....	79 00	26 33	2 00	51	86
Laborer, top....	79	77	3	54	\$38 00	1 50	.....	78 56	26 19	1 45	68	85
Laborer, top....	79	77	3	38%	.....	2 00	.....	77 50	25 83	2 00	49	83
Laborer, top....	79	79	3	43	.....	2 00	1 50	74 00	24 66	1 72	54	80
Laborer, top....	77	74	3	53%	38 00	1 50	.....	71 37	23 79	1 34	69	78
Laborer, top....	77	74	3	42	.....	1 50	.....	62 99	20 30	1 50	55	69
Laborer, top....	79	77	3	40%	.....	1 50	.....	60 75	20 25	1 50	51	66
Laborer, top....	79	77	3	37%	.....	1 50	.....	56 25	18 75	1 50	47	61
Laborer, top....	79	77	3	32%	.....	1 50	.....	49 12	16 37	1 50	41	53
Laborer, top....	52	50	2	56%	.....	2 00	.....	113 50	56 75	2 00	109	1 86
Laborer, top....	52	50	2	55%	.....	2 00	.....	111 50	55 75	2 00	107	1 83
Laborer, top....	52	51	2	54%	.....	2 00	.....	109 50	54 75	2 00	105	1 80
Laborer, top....	52	50	2	50%	.....	2 00	.....	101 00	50 50	2 00	97	1 66
Laborer, top....	52	51	2	63	.....	1 50	.....	94 50	47 25	1 50	121	1 55
Laborer, top....	52	51	2	46%	.....	2 00	.....	93 50	46 75	2 00	90	1 53
Laborer, top....	52	50	2	46%	.....	2 00	.....	93 00	46 50	2 00	89	1 52
Laborer, top....	52	53	2	45%	.....	2 00	.....	91 50	45 75	2 00	88	1 48
Laborer, top....	52	53	2	57	.....	1 60	.....	91 20	45 60	1 60	110	1 50
Laborer, top....	52	53	2	44%	.....	2 00	.....	89 50	44 75	2 00	96	1 44
Laborer, top....	52	49	2	59	.....	1 50	.....	88 50	44 25	1 50	113	1 45
Laborer, top....	52	50	2	43%	.....	2 00	.....	87 00	43 50	2 00	84	1 40
Laborer, top....	52	50	2	42%	.....	2 00	.....	85 00	42 50	2 00	82	1 43
Laborer, top....	52	50	2	39%	.....	2 00	.....	79 50	39 75	2 00	76	1 30
Laborer, top....	52	51	2	52%	.....	1 50	.....	78 37	39 18	1 50	100	1 28
Laborer, top....	52	51	2	52	.....	1 50	.....	78 00	39 00	1 50	100	1 28
Laborer, top....	50	49	2	52	.....	1 50	.....	73 00	39 00	1 50	104	1 23
Laborer, top....	52	50	2	51	.....	1 50	.....	76 50	38 25	1 50	98	1 28
Laborer, top....	52	50	2	51	.....	1 50	.....	76 50	38 25	1 50	98	1 28
Laborer, top....	52	50	2	38	.....	2 00	.....	76 00	38 00	2 00	73	1 25
Laborer, top....	52	51	2	37%	.....	2 00	.....	74 50	37 25	2 00	72	1 22
Laborer, top....	52	50	2	37	.....	2 00	.....	74 00	37 00	2 00	71	1 21
Laborer, top....	51	50	2	49	.....	1 50	.....	73 50	36 75	1 50	96	1 20

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work. ....	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days					Mos.	Days	High- est.					
Laborer, top....	52	50	2	35½		\$2 00		\$70 50	\$35 25	\$2 00	68	\$1 16		
Laborer, top....	52	51	2	35		2 00		70 00	35 00	2 00	67	1 15		
Laborer, top....	50	49	2	34		2 00		68 00	34 00	2 00	68	1 11		
Laborer, top....	52	53	2	44½		1 50		66 37	33 19	1 50	85	1 09		
Laborer, top....	52	51	2	41½		2 00	\$1 50	66 25	33 12	1 63	80	1 09		
Laborer, top....	52	51	2	32½		2 00		65 00	32 50	2 00	62	1 07		
Laborer, top....	52	50	2	31½		2 00		63 00	31 30	2 00	61	1 03		
Laborer, top....	52	51	2	31½		2 00		62 50	31 25	2 00	60	1 02		
Laborer, top....	52	51	2	41½		1 50		61 87	30 93	1 50	79	1 01		
Laborer, top....	50	49	2	41	\$38 00			61 32	30 66	1 50	82	1 01		
Laborer, top....	51	50	2	30		2 00		60 00	30 00	2 00	59	98		
Laborer, top....	51	50	2	30		2 00		60 00	30 00	2 00	59	98		
Laborer, top....	52	53	2	29½		2 00		59 00	29 50	2 00	57	97		
Laborer, top....	52	50	2	37		1 60	1 50	58 20	29 10	1 57	71	95		
Laborer, top....	52	53	2	38		1 50		57 00	28 50	1 50	73	93		
Laborer, top....	52	51	2	28½		2 00		57 00	28 50	2 00	55	93		
Laborer, top....	50	49	2	37½		1 50		56 62	28 31	1 50	76	93		
Laborer, top....	52	51	2	28½		2 00		56 50	28 25	2 00	54	93		
Laborer, top....	52	50	2	35		1 60		56 00	28 00	1 60	67	92		
Laborer, top....	52	50	2	31½		1 75		55 13	27 56	1 75	61	89		
Laborer, top....	51	50	2	34¾		1 60	1 50	54 85	27 42	1 58	68	80		
Laborer, top....	54	53	2	34½		1 50		51 37	25 68	1 50	63	83		
Laborer, top....	52	53	2	33¾		1 50		49 87	24 93	1 50	64	82		
Laborer, top....	52	53	2	32		1 60	1 50	49 80	24 90	1 56	62	82		
Laborer, top....	51	50	2	24½		2 00		49 00	24 50	2 00	48	82		
Laborer, top....	52	53	2	24½		2 00		49 00	24 50	2 00	47	80		
Laborer, top....	52	53	2	32½		1 50		48 75	24 37	1 50	62	79		
Laborer, top....	52	50	2	24½		2 00		48 50	24 25	2 00	47	80		
Laborer, top....	52	50	2	38		1 50	1 00	48 50	24 25	1 27	73	80		
Laborer, top....	51	50	2	24		2 00		48 00	24 00	2 00	47	79		
Laborer, top....	50	49	2	24		2 00		48 00	24 00	2 00	48	79		
Laborer, top....	50	50	2	31		1 50		46 50	23 25	1 50	62	75		
Laborer, top....	50	47	2	31		1 50		46 50	23 25	1 50	62	77		
Laborer, top....	52	50	2	30¾		1 50		46 12	23 06	1 50	59	76		
Laborer, top....	52	50	2	30¾		1 50		46 12	23 06	1 50	59	76		
Laborer, top....	52	50	2	30¾		1 50		45 75	22 87	1 50	59	75		
Laborer, top....	52	50	2	29		1 50		43 50	21 75	1 50	56	71		
Laborer, top....	52	53	2	28¾		1 50		43 12	21 56	1 50	55	71		
Laborer, top....	52	50	2	21		2 00		42 00	21 00	2 00	40	69		
Laborer, top....	52	50	2	23		2 00	1 50	41 00	20 50	1 78	44	67		
Laborer, top....	52	50	2	26		1 60	1 50	40 10	20 05	1 54	50	66		
Laborer, top....	50	47	2	26		1 50		39 00	19 50	1 50	52	65		
Laborer, top....	52	50	2	22		2 00	1 60	38 80	19 40	1 76	42	64		
Laborer, top....	52	53	2	17		2 00		34 00	17 00	2 00	33	55		
Laborer, top....	52	50	2	22½		1 50		33 37	16 68	1 50	43	55		
Laborer, top....	52	50	2	20		1 75	1 50	32 25	16 13	1 61	38	53		
Laborer, top....	52	52	2	16		2 00		32 00	16 00	2 00	31	52		
Laborer, top....	52	50	2	21		1 50		31 50	15 75	1 50	40	51		
Laborer, top....	53	53	2	20½		1 50		30 75	15 37	1 50	39	50		
Laborer, top....	52	53	2	17½		1 50		26 62	13 31	1 50	34	43		

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	Low-est.					
Laborer, top....	25	24	1	30%	.....	\$2 00	.....	.....	\$61 50	\$61 50	\$2 00	123	\$2 05
Laborer, top....	27	26	1	30%	.....	2 00	.....	.....	60 50	60 50	2 00	112	1 95
Laborer, top....	27	26	1	27%	.....	2 00	.....	.....	54 50	54 50	2 00	101	1 76
Laborer, top....	25	24	1	27%	.....	2 00	.....	.....	54 50	54 50	2 00	109	1 82
Laborer, top....	27	26	1	26%	.....	2 00	.....	.....	52 00	52 00	2 00	96	1 68
Laborer, top....	23	23	1	26%	.....	2 00	.....	.....	52 00	52 00	2 00	104	1 73
Laborer, top....	27	26	1	25%	.....	2 00	.....	.....	50 50	50 50	2 00	93	1 63
Laborer, top....	27	27	1	25%	.....	2 00	.....	.....	50 50	50 50	2 00	98	1 68
Laborer, top....	25	23	1	25%	.....	2 00	.....	.....	50 00	50 00	2 00	100	1 67
Laborer, top....	25	23	1	24%	.....	2 00	.....	.....	49 50	49 50	2 00	99	1 65
Laborer, top....	25	23	1	24%	.....	2 00	.....	.....	48 50	48 50	2 00	97	1 62
Laborer, top....	27	27	1	24%	.....	2 00	.....	.....	48 00	48 00	2 00	89	1 55
Laborer, top....	27	27	1	23%	.....	2 00	.....	.....	46 00	46 00	2 00	85	1 48
Laborer, top....	25	24	1	22%	.....	2 00	.....	.....	45 50	45 50	2 00	93	1 52
Laborer, top....	27	26	1	22%	.....	2 00	.....	.....	45 00	45 00	2 00	83	1 45
Laborer, top....	25	24	1	27	.....	1 60	.....	.....	43 20	43 20	1 60	108	1 44
Laborer, top....	27	26	1	21	.....	2 00	.....	.....	42 00	42 00	2 00	84	1 40
Laborer, top....	25	25	1	20%	.....	2 00	.....	.....	41 00	41 00	2 00	76	1 32
Laborer, top....	27	27	1	20%	.....	2 00	.....	.....	41 00	41 00	2 00	82	1 32
Laborer, top....	27	26	1	20%	.....	1 50	.....	.....	40 12	40 12	1 50	99	1 29
Laborer, top....	27	26	1	20	.....	2 00	.....	.....	40 00	40 00	2 00	74	1 29
Laborer, top....	25	24	1	20	.....	2 00	.....	.....	40 00	40 00	2 00	80	1 35
Laborer, top....	25	24	1	20	.....	2 00	.....	.....	40 00	40 00	2 00	80	1 35
Laborer, top....	25	24	1	24	.....	1 66	.....	.....	38 40	38 40	1 60	96	1 28
Laborer, top....	27	26	1	18%	.....	2 00	.....	.....	37 50	37 50	2 00	69	1 21
Laborer, top....	27	26	1	18%	.....	2 00	.....	.....	37 50	37 50	2 00	69	1 21
Laborer, top....	25	23	1	18%	.....	2 00	.....	.....	37 50	37 50	2 00	75	1 25
Laborer, top....	25	24	1	18%	.....	2 00	.....	.....	37 00	37 00	2 00	74	1 23
Laborer, top....	27	27	1	22	.....	2 06	\$1 50	.....	37 00	37 00	1 68	81	1 19
Laborer, top....	26	26	1	24%	.....	1 50	.....	.....	36 37	36 37	1 50	93	1 21
Laborer, top....	25	24	1	24	.....	1 50	.....	.....	36 00	36 00	1 50	96	1 20
Laborer, top....	26	27	1	23%	.....	1 50	.....	.....	35 25	35 25	1 50	90	1 14
Laborer, top....	25	24	1	23%	.....	1 50	.....	.....	34 87	34 87	1 50	93	1 16
Laborer, top....	27	26	1	22%	.....	1 50	.....	.....	34 12	34 12	1 50	84	1 10
Laborer, top....	27	26	1	17	.....	2 00	.....	.....	34 00	34 00	2 00	63	1 10
Laborer, top....	25	26	1	17	.....	2 00	.....	.....	34 00	34 00	2 00	68	1 10
Laborer, top....	25	23	1	22%	.....	1 50	.....	.....	33 75	33 75	1 50	90	1 13
Laborer, top....	25	24	1	22	.....	1 50	.....	.....	33 00	33 00	1 50	88	1 06
Laborer, top....	25	24	1	22	.....	1 50	.....	.....	33 00	33 00	1 50	88	1 06
Laborer, top....	25	23	1	22	.....	1 50	.....	.....	33 00	33 00	1 50	88	1 10
Laborer, top....	25	26	1	16%	.....	2 00	.....	.....	33 00	33 00	2 00	66	1 06
Laborer, top....	27	24	1	16%	.....	2 00	.....	.....	32 50	32 50	2 00	60	1 08
Laborer, top....	25	24	1	16%	.....	2 00	.....	.....	32 50	32 50	2 00	65	1 08
Laborer, top....	27	26	1	16	.....	2 00	.....	.....	32 00	32 00	2 00	59	1 03
Laborer, top....	25	23	1	20	.....	1 60	.....	.....	32 00	32 00	1 60	80	1 07
Laborer, top....	27	26	1	15%	.....	2 00	.....	.....	31 50	31 50	2 00	58	1 02
Laborer, top....	25	24	1	20%	.....	1 61	1 50	.....	31 45	31 45	1 53	82	1 05
Laborer, top....	27	26	1	17%	.....	1 75	.....	.....	31 06	31 06	1 75	66	1 00
Laborer, top....	27	27	1	17%	.....	1 75	.....	.....	31 06	31 06	1 75	66	1 00
Laborer, top....	27	26	1	15	.....	2 00	.....	.....	30 00	30 00	2 00	56	0 97

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					Mos.	Days	High-est.					
Laborer, top....	27	27	1	20	.....	\$1 50	.....	.....	\$30 00	\$30 00	\$1 50	74	\$0 97	
Laborer, top....	25	23	1	20	.....	1 50	.....	.....	30 00	30 00	1 50	80	1 00	
Laborer, top....	27	27	1	15	.....	2 00	.....	.....	30 00	30 00	2 00	55	95	
Laborer, top....	25	24	1	20	.....	1 50	.....	.....	30 00	30 00	1 50	77	96	
Laborer, top....	27	27	1	14½	.....	2 00	.....	.....	29 50	29 50	2 00	53	92	
Laborer, top....	25	24	1	19½	.....	1 50	.....	.....	28 87	28 87	1 50	56	93	
Laborer, top....	27	27	1	14½	.....	2 00	.....	.....	28 50	28 50	2 00	53	92	
Laborer, top....	25	24	1	14	.....	2 00	.....	.....	28 00	28 00	2 00	56	93	
Laborer, top....	25	24	1	14	.....	2 00	.....	.....	28 00	28 00	2 00	56	93	
Laborer, top....	27	27	1	14	.....	2 00	.....	.....	28 00	28 00	2 00	52	90	
Laborer, top....	25	26	1	14	.....	2 00	.....	.....	28 00	28 00	2 00	56	90	
Laborer, top....	25	26	1	18	.....	1 50	.....	.....	27 00	27 00	1 50	72	87	
Laborer, top....	26	26	1	13	.....	2 00	.....	.....	26 00	26 00	2 00	50	87	
Laborer, top....	27	26	1	13	.....	2 00	.....	.....	26 00	26 00	2 00	48	84	
Laborer, top....	27	26	1	12¾	.....	2 00	.....	.....	25 50	25 50	2 00	47	82	
Laborer, top....	25	24	1	17	.....	1 50	.....	.....	25 50	25 50	1 50	68	85	
Laborer, top....	25	24	1	12¾	.....	2 00	.....	.....	25 00	25 50	2 00	50	81	
Laborer, top....	27	26	1	16½	.....	1 50	.....	.....	24 75	24 75	1 50	61	80	
Laborer, top....	27	27	1	12¾	.....	2 00	.....	.....	24 50	24 50	2 00	45	80	
Laborer, top....	25	24	1	16	.....	1 50	.....	.....	24 00	24 00	1 50	64	77	
Laborer, top....	25	24	1	12	.....	2 00	.....	.....	24 00	24 00	2 00	48	80	
Laborer, top....	27	27	1	16	.....	1 50	.....	.....	24 00	24 00	1 50	59	80	
Laborer, top....	25	26	1	16	.....	1 50	.....	.....	24 00	24 00	1 50	64	80	
Laborer, top....	25	24	1	15½	.....	1 50	.....	.....	23 25	23 25	1 50	62	75	
Laborer, top....	27	27	1	15½	.....	1 50	.....	.....	23 25	23 25	1 50	57	75	
Laborer, top....	27	26	1	11½	.....	2 00	.....	.....	23 00	23 00	2 00	43	74	
Laborer, top....	27	26	1	15	.....	1 50	.....	.....	22 50	22 50	1 50	56	73	
Laborer, top....	25	26	1	14¾	.....	1 50	.....	.....	22 12	22 12	1 50	59	71	
Laborer, top....	27	26	1	11	.....	2 00	.....	.....	22 00	22 00	2 00	41	71	
Laborer, top....	27	27	1	14½	.....	1 50	.....	.....	21 75	21 75	1 50	54	70	
Laborer, top....	27	26	1	12½	.....	1 75	.....	.....	21 44	21 44	1 75	45	70	
Laborer, top....	25	24	1	10½	.....	2 00	.....	.....	21 00	21 00	2 00	42	70	
Laborer, top....	27	27	1	14	.....	1 50	.....	.....	21 00	21 00	1 50	52	70	
Laborer, top....	25	23	1	14	.....	1 50	.....	.....	21 00	21 00	1 50	56	70	
Laborer, top....	27	26	1	13½	.....	1 50	.....	.....	20 75	20 75	1 50	50	67	
Laborer, top....	26	27	1	12½	.....	1 60	.....	.....	20 00	20 00	1 60	46	65	
Laborer, top....	25	24	1	10	.....	2 00	.....	.....	20 00	20 00	2 00	40	61	
Laborer, top....	27	26	1	10	.....	2 00	.....	.....	20 00	20 00	2 00	37	61	
Laborer, top....	25	23	1	10	.....	2 00	.....	.....	20 00	20 00	2 00	40	67	
Laborer, top....	25	23	1	10	.....	2 00	.....	.....	20 00	20 00	2 00	40	67	
Laborer, top....	26	26	1	12	.....	1 60	.....	.....	19 60	19 60	1 60	46	65	
Laborer, top....	27	26	1	13	.....	1 50	.....	.....	19 50	19 50	1 50	48	63	
Laborer, top....	25	24	1	9½	.....	2 00	.....	.....	19 50	19 50	2 00	39	65	
Laborer, top....	25	24	1	9½	.....	2 00	.....	.....	19 00	19 00	2 00	38	63	
Laborer, top....	27	27	1	9½	.....	2 00	.....	.....	19 00	19 00	2 00	35	61	
Laborer, top....	26	26	1	12½	.....	1 50	.....	.....	18 75	18 75	1 50	48	63	
Laborer, top....	27	26	1	12½	.....	1 50	.....	.....	18 75	18 75	1 50	46	60	
Laborer, top....	25	26	1	9½	.....	2 00	.....	.....	18 50	18 50	2 00	37	60	
Laborer, top....	27	26	1	9	.....	2 00	.....	.....	18 00	18 00	2 00	33	58	
Laborer, top....	27	26	1	9	.....	2 00	.....	.....	18 00	18 00	2 00	33	58	



Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Laborer, top....	25	24	1	9	.....	\$2 00	.....	\$18 00	\$18 00	\$2 00	36	\$0 60
Laborer, top....	27	27	1	9	.....	2 00	.....	18 00	18 00	2 00	33	58
Laborer, top....	27	27	1	9	.....	2 00	.....	18 00	18 00	2 00	33	58
Laborer, top....	25	23	1	9	.....	2 00	.....	18 00	18 00	2 00	36	60
Laborer, top....	25	23	1	11	.....	1 60	.....	17 60	17 60	1 60	44	59
Laborer, top....	27	27	1	8¾	.....	2 00	.....	17 50	17 50	2 00	32	57
Laborer, top....	26	26	1	11½	\$38 00	.....	.....	16 81	16 81	1 53	46	56
Laborer, top....	25	24	1	8¾	.....	2 00	.....	16 50	16 50	2 00	33	55
Laborer, top....	25	26	1	8¾	.....	2 00	.....	16 50	16 50	2 00	33	53
Laborer, top....	27	26	1	9¾	.....	1 75	.....	16 19	16 19	1 75	34	52
Laborer, top....	27	26	1	9	.....	1 75	.....	15 75	15 75	1 75	33	51
Laborer, top....	25	24	1	10	.....	1 50	.....	15 00	15 00	1 50	40	48
Laborer, top....	27	26	1	10	.....	1 50	.....	15 00	15 00	1 50	37	48
Laborer, top....	25	24	1	10	.....	1 50	.....	15 00	15 00	1 50	40	50
Laborer, top....	27	27	1	10	.....	1 50	.....	15 00	15 00	1 50	37	48
Laborer, top....	27	26	1	9¾	.....	1 50	.....	14 62	14 62	1 50	36	47
Laborer, top....	26	27	1	9	.....	1 60	.....	14 40	14 40	1 60	35	46
Laborer, top....	26	26	1	9½	.....	1 50	.....	14 25	14 25	1 50	37	47
Laborer, top....	27	27	1	9¾	.....	1 50	.....	13 87	13 87	1 50	34	45
Laborer, top....	27	26	1	9	.....	1 50	.....	13 50	13 50	1 50	33	44
Laborer, top....	27	27	1	9	.....	1 50	.....	13 50	13 50	1 50	33	44
Laborer, top....	26	26	1	8¾	.....	1 50	.....	13 12	13 12	1 50	34	44
Laborer, top....	26	26	1	8¾	.....	1 50	.....	13 12	13 12	1 50	34	44
Laborer, top....	26	27	1	8½	.....	1 50	.....	12 75	12 75	1 50	33	41
Laborer, top....	25	23	1	8½	.....	1 50	.....	12 75	12 75	1 50	34	43
Laborer, top....	25	23	1	8¾	.....	1 50	.....	12 37	12 37	1 50	33	41
Laborer, top....	26	26	1	8	.....	1 50	.....	12 00	12 00	1 50	31	39
Dumper .....	206	193	8	189¾	.....	1 75	.....	331 63	41 45	1 75	92	1 35
Dumper .....	154	150	6	144	.....	2 00	\$1 75	259 75	43 29	1 80	94	1 41
Dumper .....	154	150	6	141¼	.....	1 75	.....	247 19	41 20	1 75	92	1 34
Dumper .....	103	100	4	119	.....	1 75	1 60	203 75	50 94	1 71	116	1 67
Dumper .....	103	100	4	100	.....	2 00	1 75	180 82	45 20	1 81	97	1 43
Dumper .....	77	77	3	70¾	.....	1 75	.....	123 81	41 27	1 75	92	1 35
Dumper .....	52	51	2	50½	.....	1 75	.....	88 37	44 19	1 75	97	1 45
Dumper .....	25	24	1	24½	.....	1 75	.....	42 87	42 87	1 75	98	1 43
Dumper .....	27	27	1	24	.....	1 75	.....	42 00	42 00	1 75	89	1 35
Dumper .....	25	26	1	14	.....	1 75	.....	24 50	24 50	1 75	56	79
Dumper .....	26	26	1	8	.....	1 75	.....	14 00	14 00	1 75	31	45
Driver .....	255	242	10	169¾	.....	2 00	1 00	304 50	3 45	1 75	66	1 00
Driver .....	206	193	8	186	.....	2 25	.....	418 47	52 31	2 25	90	1 71
Driver .....	206	193	8	199¾	.....	2 25	2 00	407 00	50 87	2 04	97	1 66
Driver .....	206	193	8	183	.....	2 25	2 00	375 12	46 89	2 01	89	1 53
Driver .....	206	193	8	167¾	.....	2 25	2 00	357 06	44 63	2 13	81	1 46
Driver .....	206	193	8	175¾	.....	2 00	.....	351 00	43 87	2 00	85	1 40
Driver .....	206	193	8	157¾	.....	2 25	2 00	330 69	41 34	2 10	76	1 35
Driver .....	206	193	8	150¾	.....	2 25	2 00	307 56	38 46	2 04	73	1 27
Driver, boss....	181	167	7	163¾	65 00	2 50	2 00	401 50	57 36	2 46	90	1 85
Driver .....	181	167	7	163¾	.....	2 50	2 00	394 50	56 36	2 41	90	1 84
Driver .....	180	166	7	160	.....	2 25	1 75	342 30	48 90	2 14	89	1 80
Driver .....	181	167	7	147¾	.....	2 25	2 00	299 93	42 85	2 03	81	1 40

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.										
Driver .....	180	166	7	138¾	.....	\$2 25	\$2 00	\$292 24	\$41 75	\$2 11	77	\$1 37										
Driver .....	180	166	7	135¾	.....	2 00	.....	271 00	38 71	2 00	75	1 27										
Driver .....	156	154	6	126¾	.....	2 00	.....	253 00	42 17	2 00	81	1 37										
Driver .....	154	150	6	66¼	.....	2 25	1 50	112 10	18 68	1 69	43	61										
Driver .....	129	127	5	107¾	.....	2 00	.....	215 50	43 10	2 00	84	1 41										
Driver .....	129	126	5	84	.....	2 25	2 00	200 37	40 07	2 39	65	1 31										
Driver .....	130	127	5	100¾	.....	2 00	1 75	194 69	38 94	1 94	77	1 27										
Driver .....	129	127	5	90¾	.....	2 25	2 00	189 62	37 92	2 10	70	1 24										
Driver .....	129	124	5	93¾	.....	2 00	.....	187 00	37 40	2 00	72	1 22										
Driver .....	130	127	5	113¾	.....	1 50	.....	170 25	34 05	1 50	87	1 11										
Driver .....	123	126	5	78¾	.....	2 25	2 00	157 56	31 51	2 01	61	1 08										
Driver .....	130	127	5	107¾	.....	1 60	1 50	146 17	29 23	1 36	83	96										
Driver .....	129	126	5	71	.....	2 00	.....	142 00	28 50	2 00	55	93										
Driver .....	129	126	5	70¾	.....	2 00	.....	141 50	28 30	2 00	55	92										
Driver .....	102	97	4	68¾	.....	2 50	2 00	166 12	41 53	2 43	67	1 36										
Driver .....	103	100	4	81¾	.....	2 00	.....	163 50	40 87	2 00	79	1 34										
Driver .....	102	100	4	81	.....	2 00	.....	162 00	40 50	2 00	79	1 33										
Driver .....	102	100	4	80¾	.....	2 00	.....	161 50	40 37	2 00	79	1 32										
Driver .....	104	103	4	72¾	.....	2 25	2 15	159 79	39 95	2 20	70	1 30										
Driver .....	104	101	4	58	.....	2 00	1 00	91 00	22 75	1 56	56	74										
Driver .....	77	77	3	75	.....	2 25	.....	168 74	56 24	2 25	97	1 33										
Driver .....	77	76	3	66	.....	2 25	2 00	146 12	45 37	2 21	86	1 59										
Driver .....	77	76	3	61¾	.....	2 00	.....	123 50	41 16	2 00	80	1 34										
Driver .....	79	77	3	56¾	.....	2 25	2 00	119 75	39 92	2 11	72	1 30										
Driver .....	77	76	3	50¾	.....	2 25	2 00	112 11	37 37	2 23	65	1 22										
Driver .....	77	76	3	51¾	.....	2 00	.....	103 50	34 50	2 00	67	1 12										
Driver .....	78	76	3	63¾	.....	2 00	1 50	103 25	34 42	1 63	81	1 13										
Driver .....	77	76	3	43¾	.....	2 25	2 00	96 00	32 00	2 21	56	1 04										
Driver .....	77	76	3	47	.....	2 00	.....	94 00	31 33	2 00	61	1 02										
Driver .....	77	77	3	44¾	.....	2 00	.....	89 00	29 67	2 00	58	97										
Driver .....	77	76	3	43¾	.....	2 00	.....	87 00	29 00	2 00	56	95										
Driver .....	75	73	3	46¾	.....	2 00	75	60 06	20 02	1 23	62	66										
Driver .....	77	76	3	23¾	.....	2 25	2 00	50 67	16 89	2 18	30	55										
Driver, boss ..	52	53	2	46	.....	2 50	.....	115 00	57 50	2 50	88	1 89										
Driver .....	50	49	2	42¾	.....	2 50	2 00	104 00	52 00	2 45	85	1 70										
Driver .....	50	49	2	39	.....	2 50	2 25	95 75	47 87	2 45	78	1 57										
Driver .....	52	50	2	47¾	.....	2 00	.....	95 50	47 75	2 00	92	1 57										
Driver .....	52	51	2	44¾	.....	2 25	2 00	95 25	47 62	2 14	86	1 56										
Driver .....	52	50	2	43	.....	2 00	.....	86 00	43 00	2 00	83	1 39										
Driver .....	52	50	2	42¾	.....	2 00	.....	85 50	42 75	2 00	82	1 40										
Driver .....	51	50	2	41¾	.....	2 00	.....	82 50	42 25	2 00	81	1 33										
Driver .....	52	51	2	41	.....	2 00	.....	82 00	41 00	2 00	79	1 34										
Driver .....	52	51	2	40¾	.....	2 00	.....	81 50	40 75	2 00	78	1 34										
Driver .....	52	50	2	39¾	.....	2 00	.....	79 00	39 50	2 00	76	1 29										
Driver .....	52	51	2	35¾	.....	2 00	.....	71 00	35 50	2 00	68	1 16										
Driver .....	50	49	2	34¾	.....	2 00	.....	69 00	34 50	2 00	69	1 13										
Driver .....	52	51	2	32¾	.....	2 00	.....	65 25	32 62	2 00	63	1 07										
Driver .....	52	51	2	31¾	.....	2 00	.....	62 50	32 25	2 00	60	1 01										
Driver .....	52	51	2	29	.....	2 00	.....	58 00	29 00	2 00	56	95										
Driver .....	52	51	2	26¾	.....	2 00	.....	53 00	26 50	2 00	51	87										

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.										
Driver .....	52	51	2	24½	.....	\$2 00	.....	\$49 00	\$24 50	\$2 00	47	\$0 80										
Driver .....	52	50	2	24	.....	48 00	.....	48 00	24 00	2 00	46	77										
Driver .....	50	49	2	24	.....	48 00	.....	48 00	24 00	2 00	48	79										
Driver .....	50	49	2	24	.....	48 00	.....	48 00	24 00	2 00	48	79										
Driver .....	50	49	2	23¾	.....	42 00	.....	46 50	23 25	2 00	46	76										
Driver .....	52	50	2	23	.....	42 00	.....	46 00	23 00	2 00	44	74										
Driver .....	50	50	2	22¾	.....	44 50	.....	44 50	22 25	2 00	45	72										
Driver .....	50	49	2	20¾	.....	41 50	.....	41 50	20 75	2 00	41	68										
Driver .....	52	50	2	18½	.....	41 30	\$2 00	41 30	20 65	2 23	36	68										
Driver .....	26	27	1	28	.....	42 00	.....	56 00	56 00	2 00	108	1 68										
Driver .....	27	26	1	25½	.....	42 00	.....	51 00	51 00	2 00	94	1 65										
Driver .....	26	27	1	20	.....	45 00	.....	45 00	45 00	2 25	77	1 45										
Driver .....	27	26	1	22½	.....	45 00	.....	45 00	45 00	2 00	83	1 45										
Driver, boss .....	25	26	1	18	.....	45 00	.....	45 00	45 00	2 00	72	1 45										
Driver .....	27	26	1	21¾	.....	42 00	.....	43 50	43 50	2 00	81	1 40										
Driver .....	25	23	1	19¼	.....	2 25	2 00	43 18	43 18	2 24	77	1 44										
Driver .....	25	23	1	21½	.....	43 00	.....	43 00	43 00	2 00	86	1 43										
Driver .....	27	27	1	17½	.....	42 25	.....	39 37	39 37	2 25	65	1 27										
Driver .....	27	26	1	19¼	.....	42 00	.....	38 50	38 50	2 00	71	1 24										
Driver .....	25	24	1	19	.....	42 00	.....	38 00	38 00	2 00	76	1 23										
Driver .....	26	27	1	18½	.....	2 00	.....	37 00	37 00	2 00	71	1 19										
Driver .....	25	26	1	13½	.....	2 25	.....	30 37	30 37	2 25	54	98										
Driver .....	25	23	1	18½	.....	1 50	.....	27 75	27 75	1 50	74	92										
Driver .....	25	24	1	11	.....	2 00	.....	22 00	22 00	2 00	44	73										
Driver .....	25	26	1	10¾	.....	2 50	2 00	21 37	21 37	1 99	43	69										
Driver .....	25	24	1	10	.....	2 00	.....	20 00	20 00	2 00	40	64										
Cutter .....	129	126	5	111½	.....	2 50	2 00	272 00	54 4	2 44	86	1 78										
Cutter .....	104	100	4	96¾	.....	2 50	.....	240 62	60 11	2 50	93	1 97										
Cutter .....	104	100	4	93	.....	2 50	2 00	204 50	21 12	2 20	89	1 63										
Cutter .....	79	77	3	71½	.....	2 50	.....	178 74	59 58	2 50	91	1 95										
Cutter .....	25	26	1	22	.....	2 40	.....	52 80	52 80	2 40	88	1 70										
Brusher .....	129	126	5	135¾	.....	2 00	.....	271 50	54 30	2 00	105	1 77										
Brusher .....	129	126	5	120¾	.....	2 00	.....	240 50	48 10	2 00	93	1 57										
Brusher .....	101	100	4	101	.....	2 50	.....	232 50	63 12	2 50	97	2 07										
Brusher .....	104	103	4	70¾	.....	2 00	.....	140 50	35 12	2 00	68	1 14										
Brusher .....	101	100	4	35	.....	2 00	1 50	65 12	16 24	1 86	35	53										
Brusher .....	79	77	3	40	.....	2 00	.....	80 00	26 67	2 00	51	87										
Brusher .....	50	49	12	46¾	.....	2 00	.....	93 00	46 50	2 00	93	1 52										
Brusher .....	50	49	12	43¾	.....	2 00	.....	86 50	43 25	2 00	86	1 42										
Brusher .....	50	49	12	38½	.....	2 00	.....	77 00	38 50	2 00	77	1 26										
Brusher .....	50	49	12	38¼	.....	2 00	.....	76 50	38 25	2 00	77	1 25										
Brusher .....	52	53	13	35	.....	2 00	.....	70 00	35 00	2 00	67	1 15										
Brusher .....	50	49	12	33¾	.....	2 00	.....	67 50	33 75	2 00	67	1 11										
Brusher .....	50	49	12	33¼	.....	2 00	.....	66 50	33 25	2 00	67	1 07										
Brusher .....	50	47	12	30¾	.....	2 00	.....	61 50	30 75	2 00	62	1 03										
Brusher .....	50	49	12	29	.....	2 00	.....	58 01	29 00	2 00	58	95										
Brusher .....	50	49	12	26¾	.....	2 00	.....	52 50	26 25	2 00	53	86										
Brusher .....	50	47	12	25	.....	2 00	.....	50 00	25 00	2 00	50	83										
Brusher .....	50	49	12	20	.....	2 00	.....	40 00	20 00	2 00	40	66										
Brusher .....	50	49	12	15¾	.....	2 00	1 50	29 62	14 81	1 98	31	49										

Table V.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of men employed appears on the pay-roll.	Actual working time of employee.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days					Mo.	Days	High- est.					
Brusher .....	27	26	1	27	.....	\$2 00	.....	.....	\$54 00	\$54 00	\$2 00	100	\$1 74	
Brusher .....	27	26	1	22½	.....	2 00	.....	.....	45 00	45 00	2 00	83	1 45	
Brusher .....	27	26	1	21	.....	2 00	.....	.....	42 00	42 00	2 00	78	1 36	
Brusher .....	27	26	1	18½	.....	2 00	.....	.....	37 00	37 00	2 00	69	1 19	
Brusher .....	27	26	1	18	.....	2 00	.....	.....	36 00	36 00	2 00	67	1 16	
Brusher .....	25	23	1	11	.....	2 00	.....	.....	22 00	22 00	2 00	44	73	
Brusher .....	25	25	1	11	.....	2 00	.....	.....	22 00	22 00	2 00	44	71	
Brusher .....	25	25	1	10	.....	2 00	.....	.....	20 00	20 00	2 00	40	64	
Fireman .....	154	140	6	121	.....	1 50	.....	.....	181 50	30 25	1 50	79	99	
Fireman .....	104	100	4	51½	.....	1 50	.....	.....	77 25	19 31	1 50	50	63	
Spragger .....	206	193	8	158¾	.....	2 00	\$0 75	.....	173 56	21 70	1 09	77	71	
Spragger .....	129	124	5	81¾	.....	1 00	75	.....	81 25	16 25	96	66	53	
Spragger .....	77	77	3	67	.....	96	.....	.....	66 35	22 12	96	87	72	
Spragger .....	52	50	2	41	.....	1 00	.....	.....	41 00	20 50	1 00	79	67	
Spragger .....	25	24	1	22	.....	1 00	.....	.....	22 00	22 00	1 00	88	73	
Spragger .....	26	27	1	14	.....	1 00	.....	.....	14 00	14 00	1 00	54	45	
Trapper .....	206	193	8	165½	.....	1 00	75	.....	131 11	16 76	82	80	55	
Trapper .....	206	193	8	177¾	.....	75	.....	.....	132 93	16 62	75	86	54	
Trapper .....	206	193	8	167½	.....	75	.....	.....	124 43	15 55	75	81	51	
Trapper .....	206	193	8	154½	.....	75	.....	.....	116 23	14 53	75	75	47	
Trapper .....	206	193	8	141¼	.....	1 00	75	.....	110 93	13 87	79	69	45	
Trapper .....	129	124	5	110¾	.....	75	.....	.....	83 00	16 60	75	86	54	
Trapper .....	129	126	5	98¾	.....	75	.....	.....	74 06	14 41	75	77	48	
Trapper .....	129	126	5	89¼	.....	75	.....	.....	66 92	13 38	75	69	44	
Trapper .....	129	126	5	80¼	.....	75	.....	.....	60 18	12 04	75	62	39	
Trapper .....	103	100	4	88¼	.....	75	.....	.....	66 18	14 55	75	86	54	
Trapper .....	100	100	4	75¼	.....	75	.....	.....	56 43	14 11	75	75	45	
Trapper .....	104	103	4	77½	.....	50	.....	.....	38 75	9 69	50	75	31	
Trapper .....	77	77	3	70	.....	75	.....	.....	52 50	17 50	75	91	57	
Trapper .....	77	74	3	67	.....	75	.....	.....	50 25	16 75	75	87	55	
Trapper .....	77	76	3	48½	.....	75	.....	.....	36 37	12 12	75	63	40	
Trapper .....	52	51	2	54¼	.....	75	.....	.....	40 69	20 34	75	104	67	
Trapper .....	52	51	2	52½	.....	75	.....	.....	39 37	19 68	75	101	65	
Trapper .....	54	53	2	52¼	.....	75	.....	.....	39 19	19 59	75	97	68	
Trapper .....	50	50	2	40½	.....	75	.....	.....	37 88	18 94	75	81	62	
Trapper .....	52	53	2	42¼	.....	75	.....	.....	31 68	15 84	75	81	52	
Trapper .....	52	50	2	35¾	.....	75	.....	.....	26 81	13 40	75	69	43	
Trapper .....	50	50	2	26¾	.....	75	.....	.....	19 69	9 84	75	52	32	
Trapper .....	50	49	2	22	.....	50	.....	.....	11 00	5 50	50	44	18	
Trapper .....	25	24	1	30	.....	75	.....	.....	22 50	22 50	75	120	75	
Trapper .....	25	24	1	19½	.....	75	.....	.....	14 62	14 62	75	78	49	
Trapper .....	26	27	1	17½	.....	75	.....	.....	13 12	13 12	75	67	42	
Trapper .....	25	26	1	15½	.....	75	.....	.....	11 62	11 62	75	62	37	
Trapper .....	25	26	1	14	.....	75	.....	.....	10 50	10 50	75	56	34	
Trapper .....	27	27	1	13¾	.....	75	.....	.....	10 31	10 31	75	51	33	
Trapper .....	27	27	1	14¾	.....	50	.....	.....	7 36	7 36	50	55	24	
Oiler .....	181	167	7	137	.....	75	.....	.....	102 74	14 68	75	76	48	
Oiler .....	77	76	3	37	.....	75	.....	.....	27 75	9 25	75	48	30	

## RECAPITULATION OF TABLE V.—Establishment II.

## MINERS, PAID BY THE TON.

No. OF MEN.	No. of months on the pay- roll.	Gross earnings.	Deduc- tions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
202...	8 Months....	\$74,304 38	\$1,592 45	\$72,711 93	\$359 96	\$44 99	70.5	\$2 87	\$1 49
90...	7 ".....	29,376 93	628 00	28,748 93	319 43	45 63	72.2	2 49	1 50
33...	6 ".....	9,598 91	206 95	9,391 96	284 60	47 43	73.6	2 57	1 57
38...	5 ".....	8,697 61	187 07	8,510 54	223 96	44 79	69.3	2 58	1 48
75...	4 ".....	11,572 86	248 49	11,324 37	150 99	37 75	64.3	2 34	1 26
58...	3 ".....	7,046 24	151 17	6,895 07	118 88	39 63	65.6	2 44	1 33
35...	2 ".....	2,608 33	54 52	2,553 81	72 96	36 48	62.0	2 30	1 19
44...	1 ".....	1,494 06	23 67	1,470 39	33 42	33 42	57.4	2 24	1 11
575...	.....	\$144,699 32	\$3,092 32	\$141,607 00	.....	\$43 26	69.8	\$2 50	\$1 45

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.  Days.	Net earnings.	AVERAGES.				
				Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.	
Bosses.....	14	1,953½	\$4,745 15	\$60 84	94	\$2 43	\$1 89	
Engineers.....	9	928	2,014 06	44 50	80	2 17	1 44	
Firemen.....	2	172½	258 75	25 87	65	1 50	81	
Weighmen.....	5	494½	764 73	32 87	75	1 75	1 08	
Cagers.....	7	669	1,310 22	40 95	76	1 96	1 24	
Dumpers.....	11	885½	1,558 69	42 13	87	1 76	1 28	
Carpenters.....	5	863½	802 13	36 46	58	2 21	1 06	
Masons.....	3	160½	538 00	53 80	56	3 36	1 51	
Blacksmiths.....	5	339½	722 74	42 51	75	2 13	1 39	
Boilermaker.....	1	131½	598 44	62 31	88	2 75	2 03	
Master mechanic.....	1	95½	247 55	41 26	61	2 59	1 35	
Well sinkers.....	7	323	961 50	50 60	66	1 98	1 66	
Surveyors.....	4	199½	340 50	42 56	98	1 70	1 43	
Box car men.....	2	150½	237 80	33 97	63	1 58	83	
Mule tenders.....	4	544½	836 23	34 84	84	1 54	1 11	
Timbermen.....	16	1,790½	3,611 05	45 14	81	2 02	1 40	
Roadmen.....	14	1,172½	2,494 94	40 90	69	2 13	1 30	
Drivers.....	88	5,699¾	11,659 83	38 60	58	2 04	1 98	
Laborers, below.....	138	5,833	11,689 19	39 62	71.5	2 00	1 20	
Laborers, top.....	293	13,576½	22,739 76	32 20	68.4	1 67	1 00	
Cutters.....	5	394½	948 66	55 80	89.4	2 15	1 82	
Brushers.....	27	1,056	2,156 74	35 94	66.8	2 04	1 13	
Spraggers.....	6	387½	398 16	19 91	75.1	1 03	63	
Trappers.....	30	2,062½	1,539 61	14 80	76	75	47	
Oilers.....	2	174	130 49	13 04	62	75	39	
	697	39,546½	\$73,204 92					

TABLE VI.—Establishment II.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Un- der \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 Months	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11 "	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10 "	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9 "	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8 "	.....	1	2	19	34	52	44	27	16	5	1	.....	1	202
7 "	.....	5	1	9	8	17	25	17	5	8	2	.....	.....	90
6 "	.....	.....	.....	2	4	9	5	7	3	2	.....	1	.....	33
5 "	.....	.....	2	4	9	9	4	5	2	1	.....	.....	2	38
4 "	2	4	11	9	16	17	9	7	.....	.....	.....	.....	.....	75
3 "	3	3	7	7	7	13	7	2	.....	1	1	.....	.....	58
2 "	1	4	7	7	3	6	3	.....	.....	8	1	.....	.....	35
1 "	5	7	8	7	1	10	8	1	1	1	.....	.....	.....	44
Totals.	*11	22	38	64	82	133	100	71	29	16	5	1	8	†575

\*Average earnings \$18.59 for an average of 10.2 days' work.

†Average earnings of all men \$43.26 per month.

Number who earned more than the average, 237, or 50 per cent. of the whole.

Number who earned less than the average, 238, or 50 per cent. of the whole.

TABLE VII.--Summaries of Results Shown by Monthly Pay-Rolls.

## ESTABLISHMENT III.—Coal Mine in Bureau County.

CONDITIONS:—Depth of shaft, 481 feet; thickness of coal,  $3\frac{1}{4}$  feet; working places, dry; system of working, long-wall; mining done by hand; screen bars  $\frac{1}{4}$  of an inch apart; check-weighman at the scale; price of mining, 90 cents a ton for screened coal; amount of "brushing" required, 16 inches.

## COAL MINERS, PAID BY THE TON.

MONTHS.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		Whole number of men on the pay-roll during the month.		Whole number of days' work performed during the month.		Whole number of tons of coal mined and delivered.		Net earnings of all the men employed during the month.		Average net earnings per man per month.		Average net earnings per man per day.		Average number of tons mined per man per day.		Average number of days' work performed per man.		Number of men required to produce same tonnage if at work full running time.	
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.											
May .....	26	23	195	3,098	8,755	\$7,895 22	\$30 49	\$2 55	2.83	15.9	135											
June .....	26	20	216	3,074	7,784	7,075 42	32 76	2 30	2.53	14.2	154											
July .....	25	24	251	4,049	9,646	8,784 84	35 00	2 17	2.88	16.1	169											
August .....	27	26	291	5,445	13,841	12,408 47	42 64	2 28	2.54	18.7	209											
September .....	25	7	290	1,566	4,061	3,708 78	13 25	2 37	2.55	5.6	224											
October .....	27	3	142	287	437	404 70	2 85	1 41	1.52	2.	96											
November .....	25	22	280	4,219	11,468	9,836 04	33 92	2 00	2.25	16.9	224											
December .....	25	16	312	4,087	8,884	7,949 83	25 48	1 95	2.17	13.1	255											
January .....	26	15	217	3,737	9,042	7,992 90	23 03	2 14	2.42	10.8	249											
February .....	23	21	412	6,050	12,543	11,257 81	27 32	1 86	2.07	14.7	288											
March .....	25	18	405	5,596	13,488	11,990 65	29 61	2 14	2.41	13.8	311											
April .....	26	20	401	6,476	15,226	13,653 81	34 06	2 11	2.35	16.1	524											
The year .....	306	215	658	48,383	114,710	\$102,958 07	\$29 09	\$2 13	2.37	13.66	225											
Monthly Aves...	25.5	17.9	295	4,032	9,559	8,579 84	29 09	2 13	32.39	13.66	225											

## OTHER EMPLOYEES, PAID BY THE DAY OR MONTH.

May	26	23	32	1,742	.....	\$3,279 04	\$40 01	\$1 88	.....	21.2	.....
June	26	20	35	1,620½	.....	3,057 08	36 07	1 89	.....	19.	.....
July	25	24	81	1,574	.....	2,906 51	34 65	1 78	.....	19.4	.....
August	27	26	98	2,219¾	.....	3,961 97	40 50	1 76	.....	23.	.....
September	25	7	103	1,110	.....	2,029 27	10 96	1 78	.....	11.	.....
October	27	3	95	1,028	.....	1,872 25	19 71	1 82	.....	10.8	.....
November	25	22	97	1,755½	.....	3,148 63	32 46	1 79	.....	18.1	.....
December	25	16	109	1,721½	.....	3,108 77	28 52	1 81	.....	15.8	.....
January	26	15	98	1,491½	.....	2,661 72	27 26	1 78	.....	15.2	.....
February	23	21	94	1,846½	.....	3,788 01	36 04	1 83	.....	19.6	.....
March	25	18	97	1,807¾	.....	3,304 99	34 07	1 83	.....	18.6	.....
April	26	20	94	1,830½	.....	3,906 19	35 17	1 81	.....	19.5	.....
The year	306	215	281	19,806½	.....	\$35,924 43	\$31.71	\$1 81	.....	17.5	.....
Monthly Aves...	25.5	17.9	94	1,651	.....	2,693 73	31 71	1 81	.....	17.5	.....
Totals	306	215	*939	68,189½	114,710	\$138,882 50	.....	.....	32.39	.....	.....
General Aves...	25.5	17.9	390	5,683	9,559	11,573 54	29 71	2 04	32.39	14.59	.....

\*In addition to these, 37 transient miners and miners' sons worked 1,227 days during the year, mining 1,680 tons and earning \$1,625.

TABLE VIII.—Individual Earnings and Working Time.

## ESTABLISHMENT III.—Coal Mine in Bureau County.

Conditions of employment given at the head of preceding table.

## COAL MINERS, PAID BY THE TON.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.		
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.	Am't.	Time	Time	Am't.	Am't.	Time	Time	Am't.	Am't.	Time	Time	
Miner .....	306	215	12	181	\$546 01	\$12 05	\$53. 96	\$44 50	\$2 93	59	84	\$1 46	Miner .....	306	215	12	198	533 45	11 74	521 71	43 48	2 63	65	92	1 43
Miner .....	306	215	12	182	530 99	11 76	519 23	43 27	2 85	59	85	1 42	Miner .....	306	218	12	171	500 76	10 82	489 94	40 83	2 87	56	80	1 34
Miner .....	306	215	12	171	488 07	10 50	477 50	39 79	2 79	57	80	1 31	Miner .....	306	215	12	163	466 03	10 56	455 47	37 95	2 79	53	76	1 25
Miner .....	306	215	12	152	466 21	6 91	452 27	37 69	2 98	50	71	1 21	Miner .....	306	215	12	185	461 48	12 08	449 40	37 45	2 43	60	86	1 23
Miner .....	306	215	12	183	452 80	9 28	443 52	39 96	3 42	60	85	1 22	Miner .....	306	215	12	148	435 88	9 30	426 58	35 55	2 89	48	69	1 17
Miner .....	306	215	12	194	436 08	9 89	426 19	35 51	2 20	64	90	1 17	Miner .....	306	215	12	173	435 11	9 07	426 04	35 50	2 46	57	80	1 17
Miner .....	306	215	12	185	435 58	9 67	425 91	35 49	2 30	60	86	1 17	Miner .....	306	215	12	177	432 37	9 27	423 10	35 26	2 39	58	82	1 16
Miner .....	306	215	12	174	429 89	9 30	417 59	34 80	2 40	57	81	1 14	Miner .....	306	215	12	184	426 83	9 57	417 26	34 77	2 27	60	86	1 14
Miner .....	306	215	12	172	425 34	9 17	416 17	34 68	2 42	56	80	1 14	Miner .....	306	215	12	196	427 67	9 29	414 38	34 53	2 11	64	91	1 14
Miner .....	306	215	12	179	423 02	8 80	414 22	34 52	2 31	58	83	1 14	Miner .....	306	215	12	187	415 87	9 17	406 70	33 89	2 17	61	87	1 11
Miner .....	306	215	12	181	410 81	9 96	401 75	33 48	2 22	59	84	1 10	Miner .....	306	215	12	190	404 48	8 95	395 53	32 96	2 08	62	88	1 08
Miner .....	306	215	12	173	401 55	8 78	392 77	32 73	2 27	57	80	1 08	Miner .....	306	215	12	169	401 14	8 42	392 72	32 73	2 32	55	79	1 08
Miner .....	306	215	12	189	400 16	8 70	391 46	32 62	2 07	62	88	1 07	Miner .....	306	215	12	165	399 84	8 78	391 06	32 59	2 37	54	77	1 07
Miner .....	306	215	12	153	397 52	8 78	388 74	32 39	2 54	50	71	1 06	Miner .....	306	215	12	175	393 23	8 66	384 57	32 05	2 20	57	81	1 05
Miner .....	306	215	12	168	391 06	8 52	382 54	31 88	2 28	55	78	1 05	Miner .....	306	215	12	163	388 15	8 43	379 72	31 64	2 33	53	76	1 04
Miner .....	306	215	12	177	383 03	8 44	374 59	31 22	2 12	58	82	1 03	Miner .....	306	215	12	177	381 81	8 46	373 36	31 11	2 11	58	82	1 02
Miner .....	306	215	12	183	381 32	8 39	372 93	31 08	2 04	60	85	1 02	Miner .....	306	215	12	159	380 08	8 79	371 29	30 94	2 34	52	74	1 02
Miner .....	306	215	12	165	376 21	8 16	368 05	30 65	2 23	54	77	1 01	Miner .....	306	215	12	162	371 71	8 18	366 53	30 54	2 23	53	75	1 00
Miner .....	306	215	12	152	373 76	8 03	365 73	30 48	2 41	50	71	1 00	Miner .....	306	215	12	170	367 30	8 49	358 81	29 90	2 11	56	80	98
Miner .....	306	215	12	172	366 59	8 05	358 54	29 88	2 08	56	80	98	Miner .....	306	215	12	162	364 86	8 87	355 99	29 75	2 20	53	75	98
Miner .....	306	215	12	163	359 92	7 78	352 14	29 31	2 16	53	76	96	Miner .....	306	215	12	174	356 74	7 88	348 88	29 15	2 00	57	81	96
Miner .....	306	215	12	162	354 23	7 58	346 65	28 88	2 14	53	76	95	Miner .....	306	215	12	178	352 83	7 65	345 18	28 76	1 94	58	83	95
Miner .....	306	215	12	166	342 42	8 04	331 38	27 86	2 01	54	77	92													



Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner	306	215	12	167	\$336 92	\$7 49	\$329 43	\$27 48	\$1 97	55	78	\$0 90
Miner	306	215	12	174	335 91	7 32	328 59	27 38	1 89	57	81	90
Miner	306	215	12	174	333 15	7 23	325 92	27 16	1 87	57	81	89
Miner	306	215	12	168	325 52	6 94	318 58	26 54	1 89	55	78	87
Miner	306	215	12	160	317 96	7 00	310 96	25 91	1 94	52	74	85
Miner	306	215	12	149	314 18	7 06	307 12	25 59	2 06	49	69	84
Miner	306	215	12	145	312 70	6 30	306 40	25 53	2 11	47	67	84
Miner	306	215	12	147	282 91	6 21	276 70	23 06	1 88	48	68	76
Miner	306	215	12	124	247 82	5 45	242 37	20 19	1 95	20	58	66
Miner	306	215	12	129	224 62	5 65	218 97	18 25	1 70	42	60	60
Miner	306	215	12	118	212 71	4 61	208 10	17 34	1 76	39	55	57
Miner	280	192	11	173	820 60	15 96	804 64	73 15	4 65	62	90	2 41
Miner	279	212	11	168	711 05	15 30	695 75	63 25	4 14	60	79	2 08
Miner	279	212	11	191	619 51	13 16	606 35	55 12	3 17	68	90	1 82
Miner	280	192	11	164	615 72	11 90	603 82	54 80	3 68	59	85	1 81
Miner	279	212	11	200	509 81	11 56	498 28	45 30	2 44	72	94	1 49
Miner	279	212	11	192	471 68	10 19	461 49	41 95	2 40	69	91	1 38
Miner	279	212	11	187	462 99	9 97	453 02	41 19	2 43	67	88	1 36
Miner	279	212	11	169	452 16	9 35	442 81	40 25	2 62	61	80	1 33
Miner	280	200	11	164	446 62	9 43	437 19	39 74	2 67	59	82	1 31
Miner	279	212	11	156	433 43	9 44	423 99	38 54	2 71	56	74	1 27
Miner	279	212	11	176	430 17	9 54	420 63	35 51	2 39	63	83	1 26
Miner	279	212	11	170	425 46	8 56	416 90	37 90	2 45	61	80	1 25
Miner	280	192	11	169	425 93	9 34	416 59	37 87	2 46	60	88	1 25
Miner	279	212	11	169	413 06	9 10	403 96	36 72	2 39	61	80	1 21
Miner	279	212	11	170	412 32	8 94	403 38	36 67	2 37	61	80	1 21
Miner	279	212	11	161	404 89	8 50	396 34	36 03	2 46	58	76	1 19
Miner	279	212	11	165	402 58	8 85	393 73	35 79	2 38	51	78	1 18
Miner	279	212	11	183	398 47	8 76	389 71	35 43	2 13	66	86	1 17
Miner	279	212	11	166	382 39	8 39	374 00	34 00	2 25	59	78	1 12
Miner	280	195	11	161	378 86	8 42	370 44	33 68	2 30	58	83	1 11
Miner	279	212	11	155	377 21	8 26	368 95	33 54	2 38	56	73	1 10
Miner	279	212	11	174	375 00	8 35	366 65	33 33	2 11	62	82	1 10
Miner	279	212	11	177	373 83	8 31	365 52	33 23	2 06	63	84	1 09
Miner	279	212	11	147	373 14	8 01	365 13	33 19	2 48	53	69	1 09
Miner	279	212	11	139	368 58	7 72	360 86	32 80	2 60	50	66	1 08
Miner	279	212	11	157	367 32	7 88	359 44	32 68	2 29	56	74	1 08
Miner	279	212	11	175	366 37	7 68	358 69	32 61	2 05	63	83	1 07
Miner	279	212	11	161	365 09	8 14	356 95	32 45	2 22	58	76	1 07
Miner	279	212	11	173	364 79	8 03	356 76	32 43	2 06	62	82	1 07
Miner	279	212	11	180	364 10	7 86	356 24	32 39	1 98	65	85	1 07
Miner	280	195	11	169	356 49	7 84	348 65	31 70	2 18	57	82	1 04
Miner	279	212	11	162	359 00	7 37	351 63	30 15	2 05	58	76	99
Miner	279	212	11	166	333 63	7 36	326 27	29 66	1 97	59	78	98
Miner	279	212	11	157	331 92	7 28	324 64	29 51	2 07	56	74	97
Miner	279	212	11	167	320 33	7 14	313 19	28 47	1 88	60	79	94
Miner	279	212	11	152	316 51	6 89	309 62	28 12	2 04	54	72	93
Miner	279	212	11	174	308 65	6 65	302 00	27 46	1 74	62	82	90
Miner	279	212	11	163	305 38	5 78	299 60	27 23	1 84	58	77	90
Miner	279	212	11	145	304 76	6 74	298 02	27 09	2 06	52	68	89

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Day.	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.									
Miner .....	279	212	11	168	\$302 25	\$6 41	\$235 94	\$26 90	\$1 76	60	79	\$0 89												
Miner .....	279	212	11	156	287 77	6 44	281 33	25 57	1 80	56	74	84												
Miner .....	279	212	11	158	278 92	6 07	272 85	24 80	1 73	57	75	82												
Miner .....	279	212	11	156	274 19	5 94	268 25	24 39	1 72	56	71	80												
Miner .....	279	212	11	147	259 89	6 26	253 63	23 06	1 73	53	69	76												
Miner .....	280	195	11	126	245 97	5 23	240 68	21 88	1 91	45	65	73												
Miner .....	279	212	11	155	240 29	5 25	235 01	21 37	1 52	56	73	70												
Miner .....	279	212	11	125	239 25	5 26	233 99	21 31	1 48	45	59	70												
Miner .....	279	212	11	123	209 36	4 58	201 78	18 62	1 67	44	58	61												
Miner .....	280	200	11	107	206 60	4 48	202 12	18 38	1 89	38	54	61												
Miner .....	254	172	10	144	484 85	10 72	474 13	47 41	3 23	57	84	1 56												
Miner .....	254	172	10	149	497 71	8 78	388 93	38 89	2 61	55	86	1 28												
Miner .....	254	172	10	142	379 72	8 24	371 48	37 15	2 62	56	82	1 22												
Miner .....	254	172	10	146	376 61	8 08	368 53	36 85	2 52	85	57	1 21												
Miner .....	253	192	10	159	364 93	8 09	356 84	35 68	2 24	63	83	1 17												
Miner .....	254	172	10	142	362 01	7 78	354 23	35 42	2 49	56	82	1 17												
Miner .....	255	185	10	136	351 81	8 04	343 77	34 38	2 51	54	74	1 13												
Miner .....	253	189	10	165	340 93	7 28	333 65	33 37	2 02	66	87	1 10												
Miner .....	254	172	10	142	358 93	7 30	331 63	33 16	2 34	56	82	1 09												
Miner .....	255	185	10	143	334 72	7 16	327 56	32 76	2 23	56	77	1 08												
Miner .....	254	172	10	137	327 24	7 10	320 14	32 01	2 34	54	80	1 05												
Miner .....	254	172	10	145	322 08	7 04	315 04	31 50	2 17	57	84	1 04												
Miner .....	255	177	10	133	236 16	6 43	229 73	22 97	2 18	52	75	95												
Miner .....	254	172	10	133	279 46	6 08	273 36	27 34	2 06	52	77	90												
Miner .....	255	177	10	137	269 08	5 97	263 11	26 31	1 92	54	77	87												
Miner .....	253	192	10	129	260 08	5 76	254 32	25 43	1 97	51	67	84												
Miner .....	253	192	10	129	258 59	5 57	253 02	25 30	1 96	51	67	83												
Miner .....	254	172	10	128	249 16	5 42	243 74	24 37	1 90	50	74	80												
Miner .....	254	172	10	125	246 42	5 44	240 98	24 10	1 93	49	73	79												
Miner .....	253	189	10	148	242 75	5 30	237 45	23 75	1 69	58	78	78												
Miner .....	254	172	10	111	231 21	4 96	226 25	22 63	2 04	44	65	74												
Miner .....	253	189	10	111	212 47	4 36	208 11	20 81	1 89	44	59	69												
Miner .....	228	168	9	144	344 29	7 19	337 10	37 46	2 34	63	86	1 24												
Miner .....	232	156	9	121	340 13	7 00	333 13	37 01	2 69	53	79	1 21												
Miner .....	232	156	9	109	328 20	6 86	321 34	34 70	2 95	47	70	1 16												
Miner .....	223	165	9	119	327 98	7 12	320 86	35 65	2 70	52	72	1 17												
Miner .....	232	156	9	105	321 50	7 32	314 18	34 91	2 98	45	67	1 14												
Miner .....	229	165	9	154	317 66	7 01	310 62	34 51	2 02	67	93	1 13												
Miner .....	229	148	9	139	316 86	6 86	310 00	34 44	2 23	61	94	1 13												
Miner .....	230	168	9	137	310 25	6 54	303 71	33 75	2 23	60	82	1 10												
Miner .....	227	169	9	103	303 69	6 40	297 29	33 03	2 89	45	61	1 09												
Miner .....	227	169	9	131	302 87	6 48	296 39	32 93	2 26	58	78	1 09												
Miner .....	228	174	9	127	298 21	6 63	291 58	32 39	2 30	56	73	1 07												
Miner .....	229	148	9	141	295 28	6 46	282 81	32 09	2 05	62	95	1 06												
Miner .....	227	169	9	128	289 25	6 42	282 33	31 33	2 21	56	76	1 04												
Miner .....	229	154	9	126	237 72	6 22	281 50	31 28	2 23	55	82	1 03												
Miner .....	229	148	9	126	285 01	6 20	278 81	30 98	2 21	55	85	1 02												
Miner .....	229	165	9	139	284 03	6 26	277 77	30 86	2 00	61	84	1 01												
Miner .....	227	169	9	125	280 92	6 00	274 92	30 55	2 20	55	74	1 01												
Miner .....	227	169	9	132	280 07	6 22	273 85	30 43	2 07	58	78	1 01												

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### OCCUPATION.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner	229	154	9	107	\$260 81	\$5 34	\$255 47	\$28 38	\$2 38	47	69	\$0 94
Miner	229	148	9	128	248 47	5 48	242 99	27 00	1 90	56	86	89
Miner	228	142	9	127	246 23	5 42	240 81	26 76	1 90	56	78	88
Miner	227	169	9	126	242 33	5 34	236 99	26 99	1 88	56	74	87
Miner	229	148	9	102	240 50	4 96	235 54	26 17	2 31	45	69	86
Miner	227	162	9	114	239 31	5 24	234 07	26 01	2 06	50	70	86
Miner	229	148	9	107	238 91	5 18	233 73	25 97	2 18	47	72	86
Miner	229	148	9	109	238 80	5 28	233 52	25 95	2 14	48	74	86
Miner	229	148	9	120	238 10	5 00	233 10	25 90	2 14	52	81	85
Miner	229	148	9	101	236 02	5 12	230 90	25 66	2 29	44	68	85
Miner	228	174	9	115	229 63	4 94	224 69	24 96	1 95	50	66	82
Miner	228	168	9	123	226 92	5 05	221 87	24 65	1 80	54	73	81
Miner	229	148	9	110	220 28	4 84	215 44	23 94	1 96	48	74	79
Miner	227	169	9	109	217 35	4 92	212 48	23 60	1 95	48	64	78
Miner	229	148	9	106	215 52	4 80	210 72	23 42	1 99	46	72	77
Miner	229	148	9	118	213 46	4 72	208 74	23 19	1 77	52	79	76
Miner	228	152	9	98	197 27	4 38	192 89	21 43	1 97	43	64	70
Miner	229	148	9	111	194 29	4 34	189 95	21 10	1 71	48	75	70
Miner	229	148	9	93	181 74	3 94	177 80	19 76	1 91	41	63	65
Miner	229	148	9	100	176 78	3 78	173 00	19 22	1 73	44	68	68
Miner	228	182	9	91	126 07	2 78	123 29	13 70	1 35	40	50	45
Miner	202	122	8	74	350 36	7 32	343 04	42 88	4 64	37	61	1 42
Miner	202	145	8	104	321 13	7 04	314 09	39 26	3 02	51	72	1 30
Miner	201	154	8	107	293 84	6 26	287 58	35 95	2 69	53	69	1 19
Miner	202	145	8	118	292 39	6 44	285 95	35 74	2 42	58	81	1 18
Miner	203	159	8	107	252 39	5 64	246 75	30 84	2 31	53	67	1 02
Miner	202	145	8	119	247 18	5 58	241 68	30 21	2 03	59	82	1 00
Miner	202	145	8	117	245 42	5 30	240 04	30 00	2 05	58	81	99
Miner	202	122	8	113	214 75	5 14	239 61	29 95	2 12	56	93	99
Miner	206	133	8	101	244 03	5 28	238 75	29 84	2 36	49	76	97
Miner	202	145	8	96	241 80	5 30	236 50	28 56	2 46	48	66	97
Miner	201	154	8	110	284 56	5 10	229 46	28 68	2 09	55	71	95
Miner	202	145	8	90	231 27	5 08	226 19	28 27	2 51	45	62	93
Miner	206	136	8	111	230 75	4 87	225 88	28 23	2 04	54	82	92
Miner	202	147	8	98	230 10	5 08	225 02	28 13	2 30	49	67	92
Miner	202	145	8	98	229 09	4 98	224 11	28 01	2 29	49	67	92
Miner	204	147	8	110	215 96	4 58	211 38	28 42	1 92	54	75	87
Miner	202	122	8	103	214 58	4 48	210 10	26 26	2 04	51	84	87
Miner	202	145	8	101	214 15	4 64	209 51	25 50	2 07	50	70	87
Miner	206	141	8	76	210 79	4 50	206 29	25 79	2 71	37	54	84
Miner	202	145	8	103	197 19	4 30	192 89	24 11	1 87	51	71	80
Miner	202	145	8	103	186 69	4 14	182 55	22 82	1 77	51	71	75
Miner	206	193	8	99	182 96	4 04	178 92	22 37	1 81	48	74	73
Miner	202	145	8	89	178 26	3 86	174 40	21 80	1 96	44	61	72
Miner	202	145	8	105	169 41	3 72	165 69	20 71	1 58	52	72	68
Miner	201	156	8	93	165 52	3 72	161 80	20 23	1 74	46	59	67
Miner	202	147	8	84	158 31	3 34	154 97	19 37	1 84	42	57	64
Miner	202	122	8	87	154 80	3 44	151 36	18 92	1 74	43	71	63
Miner	202	122	8	69	129 72	2 84	126 88	15 86	1 84	34	57	52
Miner	203	194	8	55	99 32	2 10	97 22	12 15	1 77	27	41	40

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days				Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	179	130	7	106	\$316 39	\$6 82	\$309 57	\$44 23	\$2 93	59	82	\$1 45	
Miner .....	174	138	7	107	311 34	6 66	304 68	43 52	2 85	60	78	1 42	
Miner .....	181	125	7	76	294 90	6 40	288 50	41 21	3 80	42	61	1 35	
Miner .....	180	130	7	90	232 71	5 04	227 67	32 52	2 53	50	69	1 06	
Miner .....	177	115	7	102	231 84	5 14	226 70	32 38	2 22	58	89	1 06	
Miner .....	175	119	7	96	219 96	4 70	215 26	30 75	2 21	55	81	1 02	
Miner .....	176	135	7	104	219 17	4 84	214 33	30 62	2 06	59	77	1 01	
Miner .....	177	115	7	105	208 06	4 52	203 51	29 08	1 94	59	91	96	
Miner .....	181	125	7	108	207 93	4 62	203 31	29 05	1 88	60	86	95	
Miner .....	180	118	7	97	204 96	4 54	200 42	28 63	2 07	51	82	94	
Miner .....	180	113	7	90	202 57	4 42	198 15	28 31	2 29	50	79	92	
Miner .....	177	115	7	88	200 99	4 40	196 59	28 08	2 23	51	76	92	
Miner .....	176	131	7	93	194 93	4 25	190 67	27 21	2 05	53	71	90	
Miner .....	177	104	7	89	192 94	4 26	188 68	26 95	2 12	50	86	89	
Miner .....	180	121	7	90	188 28	4 19	181 09	26 30	2 05	50	74	86	
Miner .....	176	135	7	89	180 31	4 02	176 33	25 19	1 98	51	66	83	
Miner .....	177	212	7	95	170 65	3 72	166 93	23 85	1 76	54	45	79	
Miner .....	177	127	7	87	169 75	3 74	166 01	23 71	1 91	49	69	79	
Miner .....	177	115	7	95	163 05	3 56	159 49	22 78	1 68	54	83	75	
Miner .....	180	113	7	76	150 73	3 31	147 39	21 05	1 94	42	67	68	
Miner .....	177	115	7	98	150 17	3 32	146 85	20 98	1 50	55	85	69	
Miner .....	177	115	7	79	148 45	3 28	145 17	20 74	1 81	45	69	68	
Miner .....	177	115	7	79	147 23	3 12	144 11	20 59	1 82	45	69	68	
Miner .....	176	125	7	?	138 26	3 04	135 22	19 32	1 83	42	59	64	
Miner .....	176	125	7	65	128 78	2 86	125 92	17 99	1 94	37	52	59	
Miner .....	179	130	7	60	123 51	2 60	120 91	17 27	2 02	34	46	57	
Miner .....	180	113	7	79	122 02	2 70	119 32	17 05	1 75	38	60	56	
Miner .....	175	119	7	64	109 71	2 40	107 31	15 33	1 68	37	54	51	
Miner .....	175	119	7	81	98 43	2 20	96 23	13 75	1 19	41	68	46	
Miner .....	175	119	7	57	93 37	2 02	91 35	13 05	1 60	33	48	43	
Miner .....	180	138	7	49	92 80	1 84	90 96	12 99	1 85	27	36	43	
Miner .....	181	126	7	22	55 52	1 00	54 52	7 79	2 48	12	17	25	
Miner .....	150	112	6	106	247 95	5 50	242 45	40 41	2 29	71	95	1 34	
Miner .....	150	112	6	99	244 15	5 38	238 77	39 79	2 41	66	88	1 32	
Miner .....	150	112	6	101	225 98	4 81	221 14	36 86	2 19	67	90	1 22	
Miner .....	150	112	6	87	222 20	4 96	217 24	36 21	2 50	58	78	1 20	
Miner .....	150	112	6	91	210 34	4 54	205 80	34 30	2 26	61	81	1 14	
Miner .....	150	112	6	103	205 83	4 60	201 23	33 54	1 95	69	92	1 12	
Miner .....	150	112	6	101	202 62	4 30	198 32	33 05	1 96	67	90	1 10	
Miner .....	150	112	6	92	191 72	4 14	187 58	31 26	2 05	61	82	1 04	
Miner .....	150	112	6	103	190 10	4 16	185 94	30 99	1 81	69	94	1 03	
Miner .....	151	95	6	65	188 78	4 00	184 78	30 80	2 84	43	68	1 02	
Miner .....	150	112	6	102	187 60	4 04	183 56	30 59	1 73	68	91	1 01	
Miner .....	150	112	6	96	186 49	4 04	182 45	30 41	1 90	64	86	1 01	
Miner .....	150	112	6	84	179 56	4 00	175 56	29 26	2 09	56	75	97	
Miner .....	150	112	6	89	177 36	3 86	173 50	28 92	1 95	59	79	96	
Miner .....	150	112	6	98	177 03	3 82	173 21	28 87	1 77	65	88	96	
Miner .....	150	112	6	91	172 08	3 84	168 24	28 04	1 85	61	90	93	
Miner .....	150	112	6	96	170 37	3 68	166 69	27 78	1 74	64	86	92	
Miner .....	150	112	6	72	169 08	3 60	165 43	27 57	2 30	48	64	91	

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	150	112	6	93	\$167 89	\$3 58	\$164 31	\$27 39	\$1 77	62	83	\$0 91	
Miner .....	151	107	6	87	167 35	3 72	163 63	27 27	1 88	58	81	90	
Miner .....	153	110	6	75	167 28	3 70	163 58	27 26	2 18	49	68	89	
Miner .....	150	101	6	68	167 04	3 72	163 32	27 22	2 40	45	67	91	
Miner .....	150	112	6	82	163 90	3 62	160 28	26 71	1 95	55	73	89	
Miner .....	150	112	6	99	160 32	3 50	156 82	26 14	1 58	66	88	87	
Miner .....	150	112	6	81	157 01	3 50	153 51	25 59	1 90	54	72	85	
Miner .....	150	112	6	84	141 43	3 12	138 31	23 05	1 65	56	75	76	
Miner .....	150	112	6	98	140 50	3 12	137 38	22 90	1 40	65	88	76	
Miner .....	150	112	6	81	137 33	2 88	134 45	20 74	1 66	54	72	74	
Miner .....	155	89	6	63	132 85	2 84	130 01	21 67	2 06	41	71	71	
Miner .....	155	102	6	64	125 30	2 70	122 60	20 43	1 92	41	63	67	
Miner .....	155	89	6	65	124 97	2 68	122 29	20 38	1 88	42	73	66	
Miner .....	150	112	6	82	120 49	2 62	117 87	19 65	1 44	55	73	65	
Miner .....	150	112	6	72	118 57	2 52	116 05	19 34	1 61	48	64	64	
Miner .....	150	112	6	82	118 56	2 58	115 98	19 33	1 41	55	73	64	
Miner .....	155	89	6	65	116 29	2 52	113 77	18 96	1 75	42	73	62	
Miner .....	155	89	6	63	114 48	2 48	112 00	18 67	1 78	41	71	61	
Miner .....	150	112	6	64	112 83	2 38	110 45	18 41	1 73	43	57	61	
Miner .....	155	89	6	54	109 50	2 42	107 08	17 85	1 98	35	61	58	
Miner .....	150	112	6	74	106 86	2 23	104 58	17 43	1 41	49	66	58	
Miner .....	153	110	6	51	106 07	2 26	103 71	17 29	2 03	33	46	56	
Miner .....	125	94	5	76	241 53	5 32	236 21	47 24	3 11	61	81	1 57	
Miner .....	129	100	5	80	233 46	5 20	228 26	45 65	2 85	62	80	1 49	
Miner .....	129	100	5	80	197 99	4 14	193 85	38 77	2 42	62	80	1 27	
Miner .....	129	100	5	88	197 70	4 40	193 30	38 66	2 20	68	88	1 26	
Miner .....	129	100	5	66	194 44	4 30	190 14	38 03	2 88	50	66	1 24	
Miner .....	124	92	5	55	190 66	4 24	186 42	37 28	3 39	44	60	1 23	
Miner .....	126	97	5	74	190 04	4 59	185 45	37 09	2 51	59	76	1 23	
Miner .....	128	101	5	85	188 63	4 16	184 47	36 89	2 17	66	79	1 21	
Miner .....	129	100	5	75	180 95	3 56	177 39	35 48	2 37	58	75	1 16	
Miner .....	129	100	5	71	178 82	3 98	174 84	34 97	2 46	55	71	1 14	
Miner .....	124	92	5	80	176 83	3 90	172 93	34 59	2 16	65	87	1 14	
Miner .....	125	90	5	73	173 34	3 82	169 52	33 90	2 32	58	81	1 12	
Miner .....	126	97	5	70	167 44	3 73	163 71	32 74	2 34	57	72	1 08	
Miner .....	125	90	5	78	159 22	3 54	155 68	31 14	2 00	62	87	1 03	
Miner .....	125	90	5	73	153 80	3 38	150 42	30 08	1 93	63	87	1 00	
Miner .....	125	90	5	78	152 76	3 34	149 42	29 88	1 92	62	87	99	
Miner .....	125	90	5	79	140 76	3 06	137 70	27 54	1 74	63	88	91	
Miner .....	125	94	5	76	139 89	3 06	136 83	27 36	1 78	62	82	91	
Miner .....	129	100	5	62	137 87	3 05	134 82	26 96	2 17	48	62	88	
Miner .....	125	90	5	64	134 05	2 98	131 07	26 21	2 05	51	71	87	
Miner .....	125	90	5	77	133 77	2 80	130 97	26 19	1 70	62	86	87	
Miner .....	125	90	5	70	133 38	2 84	130 44	26 09	1 86	56	78	86	
Miner .....	124	92	5	69	129 20	2 86	126 34	25 27	1 83	56	75	84	
Miner .....	125	90	5	76	125 32	2 80	122 52	24 50	1 61	61	81	81	
Miner .....	125	90	5	69	122 97	2 68	120 29	24 06	1 74	55	77	79	
Miner .....	125	90	5	71	119 41	2 64	116 77	23 35	1 64	57	79	77	
Miner .....	125	90	5	69	118 36	2 54	116 82	22 16	1 61	55	77	73	
Miner .....	125	90	5	70	110 58	2 40	108 18	21 64	1 54	56	78	72	

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	125	90	5	72	\$109 80	\$2 42	\$107 38	\$21 48	\$1 49	58	80	\$0 71	
Miner .....	125	90	5	66	109 08	2 34	106 74	21 35	1 62	53	73	71	
Miner .....	124	92	5	63	107 96	2 42	105 54	21 11	1 68	51	68	70	
Miner .....	125	90	5	65	100 57	2 20	98 37	19 67	1 56	50	70	65	
Miner .....	124	92	5	54	98 64	2 20	96 44	19 29	1 79	44	59	64	
Miner .....	125	90	5	48	96 92	2 12	94 80	18 96	1 98	38	53	63	
Miner .....	124	92	5	57	95 35	2 06	93 29	18 66	1 64	46	62	61	
Miner .....	125	90	5	69	93 60	2 08	91 52	18 30	1 33	55	77	62	
Miner .....	129	100	5	52	84 71	1 70	83 01	16 60	1 60	40	52	54	
Miner .....	124	92	5	56	83 78	1 82	81 96	16 39	1 46	45	61	54	
Miner .....	129	74	5	47	76 23	1 70	74 53	14 91	1 59	36	64	49	
Miner .....	125	90	5	58	74 61	1 68	72 93	14 59	1 26	46	64	48	
Miner .....	125	90	5	36	43 24	1 63	42 28	8 46	1 17	29	40	28	
Miner .....	104	98	4	68	174 53	3 46	171 07	42 77	2 52	65	73	1 39	
Miner .....	104	98	4	70	165 31	3 30	162 01	40 50	2 31	67	75	1 32	
Miner .....	100	74	4	63	159 48	3 52	155 96	38 99	2 48	63	85	1 30	
Miner .....	100	74	4	53	154 71	3 44	151 27	37 82	2 85	53	72	1 26	
Miner .....	104	76	4	60	151 51	3 37	148 14	37 04	2 47	58	79	1 21	
Miner .....	103	77	4	70	151 26	3 36	147 90	36 98	1 11	68	91	1 21	
Miner .....	104	98	4	69	146 84	3 17	143 67	35 92	2 08	66	74	1 17	
Miner .....	100	74	4	60	146 26	3 24	143 02	35 76	2 38	60	81	1 19	
Miner .....	100	74	4	59	141 18	3 10	138 08	34 52	2 34	59	80	1 15	
Miner .....	103	77	4	62	135 58	2 76	132 82	35 20	2 14	59	85	1 09	
Miner .....	100	74	4	59	130 57	2 84	127 73	31 93	2 16	59	80	1 06	
Miner .....	100	74	4	59	130 36	2 82	127 54	31 89	2 16	59	80	1 06	
Miner .....	100	74	4	54	130 30	2 80	127 50	31 88	2 36	54	73	1 06	
Miner .....	100	74	4	55	127 08	2 68	124 40	31 10	2 26	55	74	1 04	
Miner .....	100	74	4	51	124 58	2 74	121 84	30 46	2 39	51	69	1 02	
Miner .....	100	74	4	50	120 61	2 70	117 91	29 48	2 36	50	68	98	
Miner .....	100	74	4	59	120 51	2 68	117 83	29 46	2 00	59	80	98	
Miner .....	103	77	4	55	116 99	2 52	114 47	28 62	2 08	53	71	94	
Miner .....	100	74	4	55	115 11	2 56	112 55	28 14	2 05	55	74	94	
Miner .....	103	77	4	55	114 65	2 56	112 09	28 02	2 04	53	71	92	
Miner .....	100	82	4	62	111 32	2 43	108 89	27 22	1 76	62	76	91	
Miner .....	99	74	4	65	107 71	2 32	105 39	26 35	1 62	66	88	88	
Miner .....	106	74	4	49	106 03	2 36	103 67	25 92	2 12	49	66	86	
Miner .....	104	98	4	43	105 68	2 33	103 35	25 81	2 40	41	46	84	
Miner .....	100	74	4	61	104 83	2 28	102 55	25 64	1 68	61	82	85	
Miner .....	100	74	4	55	104 49	2 28	102 21	25 55	1 86	55	74	85	
Miner .....	100	74	4	54	101 40	2 20	99 20	24 80	1 84	54	73	83	
Miner .....	103	77	4	48	100 85	2 02	98 83	24 71	2 06	47	62	81	
Miner .....	100	74	4	59	97 18	2 08	95 10	23 78	1 61	59	80	79	
Miner .....	100	74	4	51	94 87	2 08	92 79	23 20	1 82	51	69	77	
Miner .....	103	77	4	45	93 01	2 04	90 97	22 74	2 02	44	58	75	
Miner .....	100	74	4	55	91 55	2 00	89 55	22 39	1 63	55	74	75	
Miner .....	100	74	4	48	89 00	1 90	87 10	21 78	1 81	48	65	73	
Miner .....	99	70	4	57	88 88	1 98	86 90	21 72	1 52	58	81	72	
Miner .....	100	74	4	48	88 48	1 94	86 54	21 64	1 80	48	65	72	
Miner .....	100	74	4	38	88 42	1 98	86 44	21 61	2 27	38	46	72	
Miner .....	100	74	4	53	88 06	1 96	86 10	21 52	1 62	53	72	72	

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay roll.
	Days	Days											
Miner.....	100	74	4	35	\$86 78	\$1 80	\$84 98	\$21 25	\$2 43	35	47	\$0 71	
Miner.....	100	74	4	39	86 17	1 90	84 27	21 07	2 16	39	53	70	
Miner.....	100	74	4	49	84 41	1 86	82 55	20 64	1 68	49	66	69	
Miner.....	100	74	4	46	79 61	1 70	77 91	19 48	1 69	46	62	65	
Miner.....	100	74	4	56	79 05	1 70	77 35	19 34	1 38	56	76	64	
Miner.....	100	74	4	48	76 07	1 60	74 47	18 62	1 55	48	65	62	
Miner.....	100	74	4	55	74 87	1 56	73 31	18 33	1 33	55	74	61	
Miner.....	101	91	4	41	74 83	1 62	73 21	18 30	1 79	41	45	61	
Miner.....	100	71	4	53	66 81	1 48	65 34	16 33	1 23	53	72	54	
Miner.....	100	74	4	36	63 77	1 42	62 35	15 59	1 73	36	49	52	
Miner.....	100	74	4	41	60 16	1 36	58 80	14 70	1 43	41	55	49	
Miner.....	99	70	4	34	43 29	.98	42 31	10 58	1 21	34	49	35	
Miner.....	78	70	3	61	198 53	4 40	194 13	64 71	3 18	78	87	2 11	
Miner.....	77	67	3	46	195 92	4 36	191 56	63 85	4 16	60	69	2 08	
Miner.....	74	59	3	53	149 94	3 34	146 60	48 87	2 77	72	90	1 65	
Miner.....	74	59	3	56	141 15	3 08	138 07	46 02	2 47	76	95	1 55	
Miner.....	77	67	3	42	140 44	3 13	137 31	45 77	3 27	55	63	1 33	
Miner.....	74	59	3	55	140 26	3 00	137 26	45 75	2 49	74	93	1 54	
Miner.....	74	59	3	47	135 75	3 04	132 71	44 24	2 82	64	80	1 49	
Miner.....	74	59	3	53	131 12	2 92	128 20	42 40	2 40	72	90	1 43	
Miner.....	74	59	3	51	127 76	2 84	124 92	41 64	2 45	69	86	1 40	
Miner.....	77	67	3	41	125 10	2 77	122 33	40 78	2 98	53	61	1 33	
Miner.....	74	59	3	55	124 00	2 72	121 37	40 46	2 21	74	93	1 36	
Miner.....	74	59	3	32	124 02	2 78	121 24	40 41	3 79	43	54	1 36	
Miner.....	77	67	3	42	123 22	2 74	120 48	40 16	2 87	55	74	1 31	
Miner.....	74	59	3	49	122 72	2 74	119 98	39 99	2 45	66	83	1 35	
Miner.....	77	67	3	37	116 12	2 30	113 82	37 94	3 08	48	55	1 24	
Miner.....	77	67	3	45	114 34	2 54	111 80	37 27	2 48	58	67	1 22	
Miner.....	74	59	3	49	114 08	2 52	111 56	37 19	2 28	66	83	1 25	
Miner.....	78	70	3	48	113 42	2 48	110 94	36 98	2 31	62	69	1 21	
Miner.....	77	67	3	51	112 91	2 47	110 44	36 81	2 17	66	76	1 20	
Miner.....	77	57	3	39	109 57	2 44	107 13	35 71	2 75	51	68	1 16	
Miner.....	74	59	3	57	108 25	2 36	105 89	35 30	1 86	77	97	1 19	
Miner.....	74	53	3	51	107 41	2 26	105 15	35 05	2 06	69	86	1 18	
Miner.....	77	67	3	53	105 94	2 24	103 70	34 57	1 96	69	79	1 13	
Miner.....	74	59	3	56	105 59	2 20	103 30	34 46	1 85	76	95	1 16	
Miner.....	77	67	3	49	105 60	2 35	103 25	34 42	2 11	64	73	1 12	
Miner.....	74	59	3	53	105 09	2 28	102 81	34 27	1 94	72	90	1 16	
Miner.....	74	59	3	55	104 81	2 34	102 47	34 16	1 86	74	93	1 15	
Miner.....	74	59	3	56	104 80	2 34	102 46	34 15	1 83	76	95	1 15	
Miner.....	74	59	3	55	104 07	2 26	101 81	33 94	1 85	74	93	1 14	
Miner.....	77	57	3	37	103 50	2 30	101 20	33 73	2 73	48	65	1 10	
Miner.....	77	57	3	50	103 20	2 12	101 08	33 69	2 02	65	88	1 10	
Miner.....	77	67	3	42	103 94	2 12	100 92	33 64	2 40	55	63	1 10	
Miner.....	74	59	3	46	103 19	2 30	100 89	33 63	2 19	62	78	1 13	
Miner.....	74	59	3	48	102 29	2 28	100 01	33 34	2 08	65	81	1 12	
Miner.....	77	57	3	47	100 84	2 10	98 74	32 91	2 10	61	82	1 07	
Miner.....	74	59	3	56	100 31	2 24	98 07	32 69	1 75	76	95	1 10	
Miner.....	78	70	3	39	99 23	2 22	97 01	32 34	2 49	50	56	1 05	
Miner.....	77	67	3	49	97 12	2 14	94 98	31 66	1 94	64	73	1 03	

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	74	59	3	51	\$97 03	\$2 16	\$94 87	\$31 62	\$1 86	69	86	\$1 07
Miner .....	74	59	3	42	95 53	2 12	93 41	31 14	2 22	59	71	1 05
Miner .....	74	59	3	55	95 19	2 08	93 11	31 04	1 69	74	93	1 06
Miner .....	77	67	3	38	95 11	2 08	93 03	31 01	2 45	49	57	1 01
Miner .....	77	67	3	37	95 03	2 11	92 92	30 97	2 51	48	55	1 01
Miner .....	74	59	3	56	94 95	2 10	92 85	30 95	1 66	76	95	1 04
Miner .....	74	59	3	44	94 31	2 00	92 31	30 78	2 10	59	75	1 04
Miner .....	74	59	3	44	94 14	2 02	92 12	30 71	2 09	59	75	1 04
Miner .....	74	59	3	50	94 00	2 06	91 94	30 65	1 84	68	85	1 03
Miner .....	74	59	3	49	93 95	2 10	91 85	30 62	1 87	66	83	1 03
Miner .....	74	59	3	51	93 79	2 04	91 75	30 58	1 80	69	86	1 03
Miner .....	74	59	3	30	93 36	2 02	91 34	30 45	3 04	40	51	1 03
Miner .....	74	59	3	53	93 35	2 04	91 31	30 44	1 72	72	90	1 03
Miner .....	74	59	3	48	92 21	2 06	90 15	30 06	1 88	65	81	1 01
Miner .....	74	59	3	49	92 15	2 06	90 09	30 03	1 84	66	83	1 01
Miner .....	74	59	3	41	91 57	2 06	89 51	29 84	2 18	55	69	1 01
Miner .....	74	59	3	52	91 38	1 95	89 42	29 81	1 72	70	88	1 00
Miner .....	74	59	3	50	91 22	1 98	89 24	29 75	1 78	68	85	1 00
Miner .....	74	59	3	46	90 73	2 00	88 73	29 58	1 93	62	78	1 00
Miner .....	73	61	3	44	90 67	2 00	88 67	29 56	2 02	60	72	1 00
Miner .....	74	59	3	42	90 18	2 00	88 18	29 39	2 10	57	71	99
Miner .....	74	59	3	48	89 37	1 98	87 39	29 13	1 82	65	81	98
Miner .....	74	59	3	43	88 99	1 92	87 07	29 02	2 02	58	73	98
Miner .....	77	67	3	35	87 92	1 96	85 96	28 65	2 46	45	52	93
Miner .....	74	59	3	46	86 94	1 92	85 02	28 34	1 85	62	78	96
Miner .....	74	59	3	48	86 31	1 92	84 39	28 13	1 76	65	81	95
Miner .....	74	59	3	43	85 00	1 78	84 22	28 07	1 96	58	73	95
Miner .....	74	59	3	42	85 91	1 92	84 07	28 02	2 00	57	71	94
Miner .....	74	59	3	41	85 39	1 82	83 57	27 86	2 04	55	69	94
Miner .....	76	53	3	45	84 55	1 88	82 67	27 56	1 84	59	85	90
Miner .....	74	59	3	52	83 82	1 80	82 02	27 34	1 58	70	83	92
Miner .....	78	70	3	44	83 88	1 86	82 02	27 34	1 86	56	63	89
Miner .....	76	53	3	38	83 78	1 86	81 92	27 31	2 16	50	72	89
Miner .....	74	59	3	41	82 98	1 86	81 12	27 04	1 98	55	69	91
Miner .....	74	59	3	44	82 58	1 82	79 76	26 59	1 81	59	75	90
Miner .....	76	53	3	47	81 45	1 80	79 65	26 55	1 69	62	89	87
Miner .....	77	67	3	39	81 33	1 69	79 64	26 55	2 04	51	58	87
Miner .....	77	57	3	40	80 92	1 80	79 12	26 37	1 98	52	70	43
Miner .....	74	59	3	45	78 89	1 74	77 15	25 72	1 71	61	76	86
Miner .....	74	59	3	50	77 79	1 68	76 11	25 37	1 52	68	85	86
Miner .....	77	67	3	42	77 63	1 66	75 97	25 32	1 81	55	63	83
Miner .....	78	70	3	44	77 58	1 62	75 96	25 32	1 73	56	63	83
Miner .....	77	67	3	36	77 56	1 69	75 87	25 29	2 11	47	54	82
Miner .....	74	59	3	45	77 44	1 70	75 74	25 25	1 68	61	76	85
Miner .....	77	55	3	40	76 13	1 66	74 47	24 82	1 86	52	73	82
Miner .....	74	59	3	27	76 04	1 70	74 34	24 78	2 75	36	46	84
Miner .....	74	59	3	46	74 98	1 56	73 42	24 47	1 60	62	78	82
Miner .....	76	53	3	43	74 51	1 66	72 55	24 28	1 69	57	81	79
Miner .....	77	67	3	37	74 26	1 44	72 52	24 27	1 97	48	55	79
Miner .....	77	67	3	30	73 48	1 62	71 86	23 95	2 39	37	45	77



Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am t.	Am t.	Am t.	Am t.	Am t.	Time	Time	Am t.
Miner.....	74	59	3	46	\$72 91	\$1 52	\$71 39	\$23 80	\$1 55	62	78	\$0 80
Miner.....	74	59	3	52	72 51	1 56	70 95	23 65	1 36	70	88	80
Miner.....	74	59	3	37	72 54	1 62	70 92	23 64	1 92	50	63	79
Miner.....	78	70	3	41	72 50	1 60	70 90	23 63	1 73	53	57	77
Miner.....	74	59	3	48	72 24	1 58	70 66	23 55	1 47	65	81	79
Miner.....	77	57	3	33	71 57	1 50	70 07	23 36	2 12	43	58	76
Miner.....	77	59	3	40	71 54	1 58	69 96	23 32	1 75	49	73	77
Miner.....	78	70	3	50	71 38	1 58	69 80	23 27	1 40	61	71	76
Miner.....	78	70	3	39	71 16	1 48	69 68	23 23	1 78	50	56	76
Miner.....	74	59	3	51	70 90	1 52	69 38	23 13	1 36	69	86	78
Miner.....	74	59	3	53	70 65	1 56	69 09	23 03	1 30	72	90	78
Miner.....	74	59	3	49	70 25	1 56	68 69	22 90	1 40	66	83	77
Miner.....	74	59	3	40	69 84	1 56	68 23	22 76	1 71	54	68	77
Miner.....	74	55	3	31	69 39	1 54	67 85	22 62	2 19	42	57	75
Miner.....	74	59	3	42	69 18	1 46	67 72	22 57	1 61	57	71	76
Miner.....	74	59	3	41	69 16	1 46	67 70	22 57	1 65	55	69	76
Miner.....	74	54	3	43	69 16	1 54	67 62	22 54	1 57	58	80	75
Miner.....	77	57	3	30	68 99	1 48	67 51	22 50	2 25	65	53	73
Miner.....	74	59	3	31	68 43	1 48	66 95	22 32	2 16	42	53	75
Miner.....	74	59	3	44	68 37	1 42	66 95	22 32	1 52	59	73	75
Miner.....	74	59	3	35	68 17	1 48	66 69	22 23	1 90	47	59	75
Miner.....	74	59	3	41	66 63	1 46	65 17	21 72	1 59	55	69	73
Miner.....	78	70	3	51	66 50	1 46	65 04	21 68	1 28	65	73	71
Miner.....	77	55	3	35	64 92	1 42	63 50	21 17	1 76	47	65	70
Miner.....	74	59	3	44	64 75	1 23	63 47	21 16	1 42	59	75	71
Miner.....	78	70	3	37	64 57	1 42	63 15	21 05	1 71	47	53	69
Miner.....	77	67	3	31	64 27	1 42	62 85	20 95	2 03	40	46	68
Miner.....	74	59	3	52	61 92	1 36	60 56	20 19	1 16	70	88	68
Miner.....	74	59	3	35	61 69	1 38	60 31	20 10	1 72	47	59	68
Miner.....	74	59	3	53	61 23	1 30	59 93	19 98	1 13	72	90	67
Miner.....	74	59	3	37	60 98	1 36	59 62	19 87	1 61	50	63	67
Miner.....	78	70	3	29	60 24	1 10	59 14	19 71	2 04	37	41	64
Miner.....	74	59	3	46	60 06	1 26	58 80	19 69	1 28	62	78	66
Miner.....	74	59	3	38	59 89	1 30	58 59	19 53	1 54	51	64	66
Miner.....	74	52	3	37	59 37	1 20	58 17	19 39	1 57	50	72	65
Miner.....	76	53	3	25	56 61	1 14	55 47	18 49	2 22	33	47	60
Miner.....	74	52	3	40	56 00	1 18	54 82	18 27	1 37	54	75	61
Miner.....	74	54	3	26	55 08	1 14	53 94	17 98	2 07	35	48	60
Miner.....	74	59	3	37	54 86	1 10	53 76	17 92	1 45	50	63	60
Miner.....	74	59	3	38	54 55	1 22	53 33	17 78	1 40	61	64	60
Miner.....	74	59	3	41	53 95	1 20	52 75	17 58	1 29	55	69	59
Miner.....	77	57	3	34	53 68	1 18	52 50	17 50	1 54	44	60	57
Miner.....	74	54	3	30	53 36	1 20	52 16	17 39	1 74	41	56	58
Miner.....	77	57	3	23	53 11	1 18	51 93	17 31	1 85	36	49	56
Miner.....	74	52	3	36	53 03	1 14	51 89	17 30	1 44	49	69	58
Miner.....	77	57	3	23	49 93	1 08	48 85	16 28	1 68	38	51	53
Miner.....	75	56	3	30	49 86	1 10	48 76	16 25	1 63	40	54	55
Miner.....	74	59	3	35	49 12	0 98	48 14	16 05	1 38	47	59	54
Miner.....	74	59	3	26	48 55	1 08	47 47	15 82	1 83	35	44	53
Miner.....	74	59	3	40	44 94	0 92	44 02	14 67	1 10	54	68	49

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	75	56	3	22	\$37 77	\$0 80	\$36 97	\$12 32	\$1 68	29	39	\$0 42
Miner .....	75	54	3	26	35 50	70	34 80	11 60	1 34	35	48	39
Miner .....	76	53	3	28	35 23	78	34 45	11 48	1 23	37	53	37
Miner .....	77	57	3	17	31 64	60	31 04	10 35	1 81	22	30	34
Miner .....	76	53	3	30	30 06	66	29 40	9 80	98	39	57	32
Miner .....	52	43	2	34	112 78	2 34	110 44	55 22	3 25	65	79	1 81
Miner .....	52	43	2	35	93 70	2 06	91 64	45 82	2 62	67	81	1 50
Miner .....	52	43	2	31	92 65	2 05	90 60	45 30	2 92	60	72	1 49
Miner .....	52	43	2	38	89 61	1 84	87 77	43 39	2 31	73	88	1 44
Miner .....	52	43	2	33	84 70	1 81	82 89	41 44	2 51	63	77	1 36
Miner .....	51	38	2	35	84 38	1 86	82 52	41 26	2 36	69	92	1 35
Miner .....	52	43	2	37	75 98	1 56	74 42	37 21	2 01	71	86	1 22
Miner .....	52	43	2	32	75 75	1 59	74 16	36 58	2 29	62	74	1 20
Miner .....	51	38	2	33	71 36	1 50	69 86	34 93	2 12	65	87	1 15
Miner .....	52	43	2	33	71 25	1 58	69 67	34 84	2 11	63	77	1 14
Miner .....	51	38	2	30	69 57	1 46	68 11	34 06	2 27	59	71	1 12
Miner .....	51	38	2	24	67 05	1 50	65 55	32 78	2 73	47	63	1 07
Miner .....	52	43	2	30	66 63	1 38	65 25	32 63	2 18	58	70	1 07
Miner .....	51	38	2	37	66 31	1 42	64 89	32 45	1 75	73	97	1 06
Miner .....	51	38	2	35	66 08	1 42	64 66	32 33	1 85	69	92	1 06
Miner .....	51	38	2	32	62 91	1 40	61 51	30 76	1 92	63	84	1 01
Miner .....	51	38	2	36	61 21	1 32	59 89	29 94	1 66	71	95	98
Miner .....	52	33	2	29	60 57	1 34	59 23	29 62	2 04	56	88	97
Miner .....	52	33	2	25	59 23	1 12	58 11	29 06	2 32	48	7	95
Miner .....	51	38	2	29	59 35	1 32	58 03	29 02	2 00	57	76	96
Miner .....	51	38	2	38	57 42	1 28	56 14	28 07	1 48	75	1 00	92
Miner .....	51	38	2	32	57 35	1 22	56 13	28 07	1 75	63	84	92
Miner .....	51	44	2	29	56 35	1 24	55 11	27 56	1 90	57	66	90
Miner .....	51	38	2	35	56 20	1 26	54 94	27 47	1 57	69	92	90
Miner .....	48	39	2	35	54 83	1 16	53 67	26 84	1 53	73	90	91
Miner .....	51	38	2	24	51 66	1 14	50 52	25 26	2 11	47	63	83
Miner .....	51	38	2	34	51 39	1 14	50 25	25 13	1 24	67	89	82
Miner .....	51	44	2	28	51 24	1 08	50 16	25 08	1 79	55	65	82
Miner .....	51	38	2	27	50 43	1 08	49 35	24 68	1 33	73	97	81
Miner .....	52	33	2	27	50 00	1 08	48 92	24 46	1 81	52	82	80
Miner .....	51	38	2	26	49 88	1 26	48 62	24 31	1 87	51	68	80
Miner .....	51	44	2	30	49 64	1 10	48 54	24 27	1 62	59	68	80
Miner .....	51	44	2	23	47 97	1 06	46 91	23 46	2 04	45	52	77
Miner .....	52	50	2	31	45 90	1 02	44 97	22 49	1 45	60	62	73
Miner .....	51	38	2	21	45 07	94	44 13	22 07	1 84	47	63	72
Miner .....	52	33	2	21	44 00	96	43 70	21 85	2 08	40	64	72
Miner .....	51	44	2	25	43 97	94	43 03	21 52	1 72	49	57	71
Miner .....	51	44	2	24	43 54	94	42 60	21 30	1 78	47	55	70
Miner .....	52	33	2	21	43 28	94	42 34	21 17	2 02	40	64	69
Miner .....	51	44	2	20	42 97	96	42 01	21 01	2 10	39	45	69
Miner .....	52	33	2	20	42 64	92	41 72	20 86	2 09	38	60	68
Miner .....	51	38	2	28	41 58	94	40 64	20 32	1 45	55	73	67
Miner .....	51	38	2	29	41 35	92	40 43	20 22	1 39	57	76	66
Miner .....	51	38	2	29	40 95	1 10	39 85	19 93	1 37	57	76	65
Miner .....	51	38	2	31	40 01	88	39 13	19 57	1 26	61	82	64

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	50	38	2	29	\$39 96	\$0 90	\$39 06	\$19 53	\$1 35	58	50	\$0 64
Miner.....	51	38	2	31	38 68	82	37 86	18 93	1 22	61	82	62
Miner.....	52	33	2	16	38 43	86	37 57	18 79	2 35	31	48	62
Miner.....	51	31	3	18	37 89	86	37 03	18 52	2 05	35	58	60
Miner.....	51	31	2	22	37 08	82	36 26	18 13	1 63	43	71	58
Miner.....	52	33	2	15	35 55	80	31 75	17 38	2 32	29	45	57
Miner.....	49	36	2	19	34 65	78	33 87	16 94	1 78	39	53	57
Miner.....	52	33	2	18	34 00	74	33 26	16 63	1 85	35	55	55
Miner.....	51	38	2	21	34 02	76	33 26	16 63	1 58	41	55	55
Miner.....	51	38	2	8	33 98	76	33 22	16 61	4 15	16	21	54
Miner.....	50	38	2	17	32 48	72	31 76	15 88	1 87	34	45	52
Miner.....	51	38	2	18	30 87	68	30 19	15 10	1 68	35	47	49
Miner.....	52	25	2	18	29 21	64	28 57	14 23	1 59	35	72	47
Miner.....	52	33	2	9	29 10	62	28 48	14 24	3 16	17	27	47
Miner.....	49	36	2	12	27 43	56	26 87	13 44	2 24	24	33	46
Miner.....	51	38	2	24	27 05	60	26 45	13 23	1 10	47	63	43
Miner.....	51	44	2	25	26 86	60	26 26	13 13	1 05	49	57	43
Miner.....	52	33	2	14	26 53	56	25 97	12 99	1 85	27	42	43
Miner.....	51	31	2	22	26 29	48	25 81	12 91	1 17	42	71	42
Miner.....	49	36	2	18	24 98	56	24 42	12 21	1 35	37	50	41
Miner.....	52	33	2	13	23 85	52	23 33	11 67	1 79	25	39	38
Miner.....	49	36	2	13	20 81	46	20 38	10 19	1 57	27	36	34
Miner.....	51	31	2	17	20 43	46	19 97	9 99	1 17	33	55	32
Miner.....	50	38	2	16	19 94	44	19 50	9 75	1 22	32	42	32
Miner.....	49	36	2	21	19 94	44	19 50	9 75	93	43	58	33
Miner.....	52	33	2	16	19 40	44	18 96	9 48	1 18	31	48	31
Miner.....	52	33	2	13	18 16	36	17 80	8 00	1 49	23	36	29
Miner.....	52	33	2	12	17 70	38	17 32	8 66	1 44	23	36	28
Miner.....	52	33	2	12	16 47	36	16 11	8 06	1 34	23	37	26
Miner.....	52	10	2	4	10 72	24	10 48	5 24	2 62	08	40	17
Miner.....	26	20	1	18	69 52	1 54	67 98	67 98	3 78	60	90	2 27
Miner.....	26	23	1	16	59 35	1 32	58 03	58 03	3 63	62	70	1 87
Miner.....	26	23	1	19	52 85	1 17	51 68	51 68	2 72	73	83	1 67
Miner.....	26	23	1	17	49 99	1 12	48 87	48 87	2 87	65	74	1 58
Miner.....	26	23	1	18	47 56	1 06	46 50	46 50	2 58	69	78	1 50
Miner.....	26	23	1	19	43 89	97	42 92	42 92	2 26	73	83	1 38
Miner.....	26	20	1	19	43 74	98	42 76	42 76	2 25	73	95	1 43
Miner.....	26	23	1	16	43 57	89	42 68	42 68	2 67	62	70	1 38
Miner.....	27	26	1	19	42 89	96	41 93	41 93	2 21	70	73	1 35
Miner.....	27	26	1	19	42 68	90	41 78	41 78	2 20	70	73	1 35
Miner.....	26	23	1	14	41 85	93	40 92	40 92	2 92	64	61	1 32
Miner.....	26	23	1	16	41 71	93	40 78	40 78	2 55	62	70	1 32
Miner.....	26	23	1	17	41 23	92	40 37	40 37	2 37	65	74	1 30
Miner.....	26	23	1	16	41 15	91	40 24	40 24	2 52	62	70	1 30
Miner.....	26	23	1	19	40 68	90	39 78	39 78	2 09	73	83	1 28
Miner.....	26	23	1	16	40 16	84	39 32	39 32	2 46	62	70	1 27
Miner.....	26	23	1	19	38 61	86	37 75	37 75	1 99	73	83	1 22
Miner.....	26	23	1	11	37 83	82	37 01	37 01	3 36	41	48	1 19
Miner.....	26	23	1	17	37 37	83	36 54	36 54	2 15	65	74	1 18
Miner.....	26	23	1	11	37 31	82	36 49	36 49	3 32	42	48	1 18

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.	Time	Time	Am't.						
Miner.....	26	20	1	17	\$36 77	\$0 82	\$35 95	\$35 95	\$2 11	65	85	\$1 20												
Miner.....	26	23	1	16	36 45	81	35 64	35 64	2 23	62	70	1 15												
Miner.....	26	20	1	16	36 36	80	35 56	35 56	2 22	62	80	1 19												
Miner.....	26	23	1	15	35 73	79	34 94	34 94	2 23	54	65	1 13												
Miner.....	26	23	1	17	35 66	75	34 91	34 91	2 05	65	74	1 13												
Miner.....	26	20	1	11	34 36	70	33 66	33 66	3 06	42	55	1 12												
Miner.....	26	23	1	18	32 81	72	32 09	32 09	1 78	69	78	1 04												
Miner.....	26	20	1	13	32 40	72	31 68	31 68	2 44	50	65	1 06												
Miner.....	26	20	1	15	32 15	68	31 47	31 47	2 10	58	75	1 05												
Miner.....	27	26	1	12	32 08	72	31 36	31 36	2 61	44	46	1 01												
Miner.....	27	26	1	19	32 00	72	31 28	31 28	1 65	70	73	1 01												
Miner.....	26	20	1	12	31 41	70	30 71	30 71	2 56	46	60	1 02												
Miner.....	26	23	1	16	30 62	68	29 94	29 94	1 87	62	70	97												
Miner.....	26	20	1	16	29 97	66	29 31	29 31	1 83	62	80	98												
Miner.....	27	26	1	15	29 63	60	29 03	29 03	1 94	56	54	94												
Miner.....	27	26	1	17	29 02	64	28 38	28 38	1 67	63	65	92												
Miner.....	26	23	1	14	28 62	61	27 98	27 98	2 00	54	61	90												
Miner.....	26	20	1	20	28 04	50	27 54	27 54	1 38	77	100	92												
Miner.....	26	23	1	13	27 94	62	27 32	27 32	2 02	50	57	85												
Miner.....	25	22	1	13	27 82	58	27 24	27 24	2 09	52	59	91												
Miner.....	25	24	1	8	27 36	60	26 76	26 76	3 35	32	33	86												
Miner.....	26	20	1	16	26 28	58	25 70	25 70	1 61	62	80	86												
Miner.....	26	23	1	14	25 92	50	25 42	25 42	1 82	54	61	82												
Miner.....	26	23	1	14	25 31	50	24 81	24 81	1 77	54	61	80												
Miner.....	27	26	1	18	25 11	56	24 55	24 55	1 56	67	69	79												
Miner.....	27	26	1	13	23 85	54	23 31	23 31	1 79	48	50	75												
Miner.....	26	23	1	11	22 95	51	22 44	22 44	2 04	42	48	72												
Miner.....	26	20	1	8	22 68	50	22 18	22 18	2 77	31	40	74												
Miner.....	26	20	1	12	22 23	50	21 73	21 73	1 81	46	60	72												
Miner.....	23	21	1	12	21 83	48	21 35	21 35	1 78	52	57	76												
Miner.....	23	21	1	16	21 15	48	20 67	20 67	1 29	70	76	74												
Miner.....	27	26	1	14	20 61	46	20 15	20 15	1 44	52	54	65												
Miner.....	23	21	1	11	19 91	44	19 50	19 50	1 78	48	52	70												
Miner.....	26	20	1	17	19 67	44	19 25	19 25	1 13	65	85	64												
Miner.....	23	21	1	12	19 62	44	19 18	19 18	1 60	52	57	69												
Miner.....	23	24	1	15	17 92	28	17 64	17 64	1 18	60	63	57												
Miner.....	23	21	1	13	17 64	40	17 24	17 24	1 33	56	63	62												
Miner.....	23	21	1	12	17 19	38	16 81	16 81	1 40	52	57	60												
Miner.....	27	26	1	11	16 96	38	16 58	16 58	1 51	41	42	53												
Miner.....	27	26	1	11	16 90	34	16 56	16 56	1 51	41	42	53												
Miner.....	25	7	1	7	16 67	32	16 35	16 35	2 35	28	100	55												
Miner.....	26	20	1	8	16 43	36	16 07	16 07	2 01	31	40	54												
Miner.....	26	20	1	13	16 14	34	15 80	15 80	1 22	50	65	53												
Miner.....	25	7	1	6	15 97	36	15 61	15 61	2 60	24	86	52												
Miner.....	25	16	1	13	15 79	36	15 43	15 43	1 19	52	81	50												
Miner.....	23	21	1	5	15 44	31	15 10	15 10	3 02	22	24	54												
Miner.....	27	26	1	9	15 26	34	14 92	14 92	1 06	33	34	48												
Miner.....	26	20	1	16	15 07	34	14 73	14 73	92	62	80	49												
Miner.....	25	7	1	6	14 97	28	14 69	14 69	2 45	24	86	49												
Miner.....	25	24	1	12	14 09	32	13 77	13 77	1 15	48	50	44												

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.....	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	25	7	1	7	\$13 81	\$0 30	\$13 51	\$13 51	\$1 93	28	100	\$0 45
Miner .....	25	7	1	7	13 72	28	13 44	13 44	1 92	28	100	45
Miner .....	25	7	1	6	13 32	30	13 02	13 02	2 17	24	86	43
Miner .....	25	24	1	12	13 28	30	12 98	12 98	1 08	48	50	42
Miner .....	25	22	1	12	13 14	30	12 84	12 84	1 07	48	55	43
Miner .....	25	18	1	7	13 05	30	12 75	12 75	1 82	28	39	41
Miner .....	25	7	1	7	12 64	28	12 36	12 36	1 77	28	100	41
Miner .....	25	7	1	5	12 38	16	12 22	12 22	2 44	20	71	41
Miner .....	25	20	1	11	12 04	20	11 84	11 84	1 08	42	55	39
Miner .....	25	7	1	3	9 36	18	9 18	9 18	3 06	12	43	31
Miner .....	25	7	1	5	7 24	11	7 08	7 08	1 42	20	72	24
Miner .....	25	7	1	4	6 21	16	6 07	6 07	1 52	16	57	20
Miner .....	25	7	1	4	6 03	14	5 89	5 89	1 47	16	57	20

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est. Low-est.	Am't.	Am't.	Am't.	Time	Am't.
Boss, day .....	306	215	12	236	.....	\$3 00	\$888 00	\$74 00	\$3 00	97	\$2 48
Boss, .....	232	156	9	161 3/4	.....	3 00	392 75	43 64	2 43	70	1 42
Boss, night.....	177	115	7	146	.....	2 00	292 00	41 71	2 00	53	1 38
Boss, .....	126	142	5	65	\$75 00	.....	172 50	34 50	2 65	52	1 15
Boss, top, .....	104	60	4	95 3/4	.....	2 25	215 42	53 86	2 25	93	1 75
Boss, top, .....	100	74	4	86	.....	2 25	193 50	48 38	2 25	86	1 61
Boss, night.....	77	57	3	45 3/4	.....	2 00	91 50	30 50	2 00	59	99
Boss, .....	51	38	2	51	.....	3 00	153 00	76 50	3 00	100	2 51
Boss, top, .....	52	43	2	50	.....	2 25	112 50	56 25	2 25	95	82
Boss, night.....	50	38	2	30 1/2	.....	2 50	76 25	38 13	2 50	61	1 25
Engineer, day..	306	215	12	301	75 00	.....	865 00	72 08	2 87	98	2 37
Engineer, night	186	141	8	116 3/4	.....	3 00	213 25	30 40	2 08	63	1 99
Engineer, night	150	112	8	179	.....	2 00	358 00	59 67	2 00	119	1 98
Engineer, night	77	67	3	71 3/4	.....	2 00	143 50	44 50	2 00	93	1 56
Engineer .....	53	57	2	56	.....	2 00	110 00	37 33	2 00	73	1 22
Engineer .....	52	40	2	60	60 00	.....	120 00	60 00	2 00	115	1 97
Engineer, night	25	16	1	10 1/2	.....	3 00	31 50	31 50	3 00	42	1 02

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Fireman.....	306	215	12	357	.....	\$1 50	.....	\$535 50	\$44 63	\$1 50	117	\$1 47										
Fireman.....	306	215	12	258¾	.....	1 60	\$1 50	404 72	33 73	1 56	85	1 11										
Carpenter.....	306	215	12	232¼	.....	2 00	.....	464 50	38 54	2 00	76	1 27										
Carpenter.....	152	123	6	86¼	.....	2 25	.....	194 03	32 34	2 25	57	1 07										
Carpenter.....	51	38	2	35	.....	1 75	.....	61 25	30 62	1 75	69	1 00										
Carpenter.....	26	23	1	22½	.....	2 00	.....	45 00	45 00	2 00	87	1 45										
Weighman.....	280	195	11	220	\$45 00	2 00	1 60	385 75	35 07	1 75	79	1 15										
Weighman.....	177	115	7	103½	45 00	.....	.....	182 03	26 00	1 76	58	86										
Weighman.....	52	33	2	31	45 00	.....	.....	52 11	26 06	1 68	60	85										
Teamster.....	254	172	10	229¼	38 00	.....	.....	329 92	32 99	1 44	90	1 09										
Blacksmith.....	181	125	7	162¼	.....	2 00	.....	324 50	46 36	2 00	90	1 52										
Blacksmith.....	150	112	6	128¾	.....	2 50	.....	320 62	53 44	2 50	86	1 77										
Blacksmith.....	27	26	1	10½	.....	2 00	.....	21 00	21 00	2 00	39	68										
Machinist.....	254	165	10	137	75 00	2 50	2 00	311 90	31 19	2 28	54	1 03										
Mason.....	178	128	7	42	.....	3 50	.....	144 36	20 62	3 44	24	68										
Mason.....	156	103	6	123	.....	2 50	2 00	302 75	50 46	2 46	79	1 65										
Mason.....	77	53	3	39½	.....	2 00	.....	79 00	26 33	2 00	51	86										
Mason.....	50	18	2	15¼	.....	3 00	.....	45 75	22 88	3 00	31	78										
Mason.....	27	3	1	10	.....	3 00	.....	30 00	30 00	3 00	37	97										
Mason.....	27	3	1	9	.....	3 00	.....	27 00	27 00	3 00	33	87										
Mason.....	27	3	1	9	.....	3 00	.....	27 00	27 00	3 00	33	87										
Lab'r, escap'mt.	104	92	4	62	.....	2 25	2 00	133 00	33 25	2 15	60	1 08										
Lab'r, escap'mt.	52	43	2	40	.....	2 25	.....	90 00	45 00	2 25	80	1 48										
Lab'r, escap'mt.	52	43	2	35	.....	2 50	.....	87 50	43 75	2 50	67	1 43										
Lab'r, escap'mt.	52	43	2	38	.....	2 25	.....	85 50	42 75	2 25	73	1 40										
Lab'r, escap'mt.	52	43	2	37	.....	2 25	.....	83 25	41 62	2 25	71	1 36										
Lab'r, escap'mt.	52	43	2	34½	.....	2 25	.....	77 62	38 81	2 25	67	1 27										
Lab'r, escap'mt.	52	43	2	34½	.....	2 25	.....	77 06	38 53	2 25	65	1 26										
Lab'r, escap'mt.	52	43	2	23½	.....	2 25	.....	52 87	26 43	2 25	46	86										
Laborer, top....	306	215	12	333¾	.....	1 50	.....	500 59	41 72	1 50	109	1 37										
Laborer, top....	306	215	12	285	.....	1 75	1 50	493 69	41 14	1 74	93	1 36										
Laborer, top....	306	215	12	271½	.....	1 75	1 50	435 74	36 31	1 62	90	1 19										
Laborer, top....	306	215	12	250¾	.....	1 75	1 50	434 92	36 24	1 73	82	1 19										
Laborer, top....	306	215	12	273	.....	1 60	1 50	414 69	34 56	1 52	89	1 14										
Laborer, top....	306	215	12	237¾	.....	1 60	1 50	366 69	30 56	1 54	78	1 09										
Laborer, top....	280	200	11	258	25 00	1 00	.....	253 30	23 03	98	92	70										
Laborer, top....	254	172	10	213½	.....	1 75	1 50	369 62	36 96	1 73	84	1 21										
Laborer, top....	204	142	8	142½	.....	1 50	.....	213 74	26 72	1 50	70	88										
Laborer, top....	181	112	6	137	.....	1 50	.....	205 50	34 25	1 50	76	96										
Laborer, top....	184	98	6	112¼	.....	1 75	1 50	186 94	31 16	1 66	61	1 01										
Laborer, top....	155	96	6	97½	.....	2 00	1 50	143 12	23 85	1 64	57	78										
Laborer, top....	150	112	6	94	.....	1 50	.....	140 99	23 50	1 50	63	78										
Laborer, top....	154	9	6	88	.....	1 50	.....	131 99	21 60	1 50	57	72										
Laborer, top....	155	105	6	100½	.....	1 50	75	94 69	15 78	94	65	51										
Laborer, top....	129	100	5	128½	.....	1 75	1 50	207 25	41 45	1 61	100	1 35										
Laborer, top....	129	115	5	116¾	.....	1 50	.....	175 12	35 02	1 50	90	1 14										
Laborer, top....	125	90	5	82¼	.....	1 50	.....	123 37	20 67	1 50	66	82										
Laborer, top....	129	74	5	65½	.....	1 50	.....	98 25	19 65	1 50	51	64										
Laborer, top....	102	69	4	89	.....	1 50	.....	133 50	33 35	1 50	87	1 09										

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.	
Laborer, top....	99	74	4	61	.....	\$1 50	.....	\$92 49	\$23 12	\$1 50	62	\$0 78	
Laborer, top....	103	64	4	50½	.....	1 50	.....	75 36	18 84	1 50	50	61	
Laborer, top....	74	59	3	87	.....	1 75	\$1 60	148 05	49 35	1 70	120	1 66	
Laborer, top....	77	57	3	65½	.....	1 75	1 60	113 73	37 92	1 74	86	1 24	
Laborer, top....	77	32	3	71½	.....	1 50	.....	106 87	35 62	1 50	92	1 17	
Laborer, top....	77	57	3	54	.....	1 50	.....	81 00	27 00	1 50	70	88	
Laborer, top....	76	53	3	52¾	.....	1 50	.....	79 12	26 37	1 50	70	86	
Laborer, top....	76	53	3	45¾	.....	1 50	.....	68 61	22 87	1 50	60	75	
Laborer, top....	76	53	3	44¾	.....	1 50	.....	67 12	22 37	1 50	60	73	
Laborer, top....	79	46	3	37	.....	1 75	1 60	64 15	21 38	1 73	47	70	
Laborer, top....	76	53	3	41¾	.....	1 50	.....	62 62	20 87	1 50	55	68	
Laborer, top....	74	54	3	40	.....	1 50	.....	60 00	20 00	1 50	54	67	
Laborer, top....	74	52	3	37¾	.....	1 50	.....	56 62	18 87	1 50	51	63	
Laborer, top....	77	57	3	35¾	.....	1 60	1 50	55 42	18 47	1 55	47	60	
Laborer, top....	52	43	2	53¾	.....	1 75	.....	94 06	47 03	1 75	104	1 54	
Laborer, top....	52	43	2	52¾	.....	1 50	.....	78 37	39 18	1 50	100	1 28	
Laborer, top....	52	43	2	49¾	.....	1 75	.....	76 56	38 28	1 75	85	1 24	
Laborer, top....	52	43	2	49	.....	1 50	.....	73 50	36 75	1 50	94	1 20	
Laborer, top....	52	43	2	41	.....	1 75	.....	71 75	35 87	1 75	80	1 18	
Laborer, top....	52	43	2	40	.....	1 75	.....	70 00	35 22	1 75	77	1 15	
Laborer, top....	52	43	2	43	\$38 00	.....	.....	66 62	33 31	1 55	83	1 09	
Laborer, top....	51	38	2	41½	.....	1 50	.....	62 25	31 12	1 50	82	1 02	
Laborer, top....	52	33	2	39	.....	1 60	1 50	59 30	29 65	1 52	75	97	
Laborer, top....	52	10	2	34	.....	1 50	.....	57 00	28 50	1 50	73	98	
Laborer, top....	52	33	2	33¾	.....	1 60	1 50	52 90	26 45	1 58	65	87	
Laborer, top....	50	34	2	31½	.....	1 50	.....	47 24	23 62	1 50	64	76	
Laborer, top....	51	31	2	31¾	.....	1 50	.....	46 87	23 43	1 50	60	76	
Laborer, top....	49	36	2	31	.....	1 50	.....	46 50	23 25	1 50	63	79	
Laborer, top....	52	33	2	29¾	.....	1 50	.....	44 62	22 31	1 50	58	73	
Laborer, top....	52	33	2	27¾	.....	1 50	.....	41 25	20 62	1 50	54	68	
Laborer, top....	52	33	2	25¾	.....	1 50	.....	38 62	19 26	1 50	50	63	
Laborer, top....	50	38	2	20¾	.....	1 75	1 50	34 75	17 37	1 67	42	57	
Laborer, top....	52	33	2	20	.....	1 60	1 50	30 90	15 45	1 55	38	51	
Laborer, top....	50	24	2	15½	.....	1 50	.....	23 25	11 62	1 50	32	40	
Laborer, top....	52	33	2	21¾	.....	1 50	75	19 68	9 84	90	42	32	
Laborer, top....	25	16	1	22	50 00	.....	.....	42 30	42 30	1 92	90	1 36	
Laborer, top....	27	26	1	20¾	.....	1 50	.....	31 12	31 12	1 50	78	1 00	
Laborer, top....	26	20	1	19¾	.....	1 50	.....	29 62	29 62	1 50	77	99	
Laborer, top....	25	22	1	18	.....	1 50	.....	27 00	27 00	1 50	72	90	
Laborer, top....	27	26	1	17¾	.....	1 50	.....	26 25	26 25	1 50	67	85	
Laborer, top....	27	26	1	17½	.....	1 50	.....	26 25	26 25	1 50	67	85	
Laborer, top....	26	20	1	30	25 00	.....	.....	25 00	25 00	83	115	83	
Laborer, top....	26	23	1	15¾	.....	1 50	.....	23 62	23 62	1 50	62	76	
Laborer, top....	26	15	1	22	25 00	.....	.....	21 15	21 15	96	85	70	
Laborer, top....	26	15	1	14	.....	1 50	.....	21 00	21 00	1 50	54	70	
Laborer, top....	27	3	1	13¾	.....	1 50	.....	19 87	19 87	1 50	48	64	
Laborer, top....	27	26	1	11½	.....	1 50	.....	17 25	17 25	1 50	45	56	
Laborer, top....	25	16	1	11	.....	1 50	.....	16 50	16 50	1 50	44	53	
Laborer, top....	27	3	1	10¾	.....	1 50	.....	16 12	16 12	1 50	41	52	
Laborer, top....	27	3	1	10½	.....	1 50	.....	15 75	15 75	1 50	41	51	

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Laborer, top....	27	3	1	10	.....	\$1 50	.....	\$15 00	\$15 00	\$1 50	37	\$0 50
Laborer, top....	27	21	1	9¾	.....	1 50	.....	14 62	14 62	1 50	44	52
Laborer, top....	25	18	1	8	.....	1 75	.....	14 00	14 00	1 75	32	45
Laborer, top....	27	3	1	9	.....	1 50	.....	13 50	13 50	1 50	33	44
Laborer, top....	26	20	1	8¾	.....	1 50	.....	12 37	12 37	1 50	31	41
Laborer, top....	27	3	1	7¾	.....	1 50	.....	11 62	11 62	1 50	30	37
Laborer, top....	25	16	1	7½	.....	1 50	.....	11 25	11 25	1 50	32	36
Laborer, top....	27	3	1	10	.....	1 00	.....	10 00	10 00	1 00	40	32
Laborer, top....	27	3	1	6¾	.....	1 60	.....	10 00	10 00	1 60	22	32
Laborer, top....	27	3	1	7	\$38 00	.....	.....	9 85	9 85	1 41	26	32
Laborer, top....	25	16	1	6¾	.....	1 50	.....	9 37	9 37	1 50	24	30
Laborer, top....	27	3	1	6	.....	1 50	.....	9 00	9 00	1 50	22	29
Lab rer, top....	27	3	1	5	.....	1 50	.....	7 50	7 50	1 50	19	24
Timberman ....	306	215	12	247	.....	2 00	.....	494 00	41 17	2 00	81	1 35
Timberman ....	252	186	10	153¾	.....	2 25	\$2 00	306 81	30 68	2 00	61	1 01
Timberman ....	150	112	6	123½	.....	2 00	.....	247 00	41 17	2 00	80	1 36
Timberman ....	150	112	6	119	.....	2 00	.....	238 00	39 67	2 00	79	1 32
Timberman ....	152	97	6	117	.....	2 00	.....	234 00	39 00	2 01	77	1 29
Timberman ....	129	100	5	111	.....	2 00	.....	222 00	44 40	2 00	86	1 45
Timberma ....	103	77	4	79¾	.....	2 00	.....	158 50	39 62	2 00	77	1 30
Timberman ....	51	38	2	45	.....	2 00	.....	90 00	45 00	2 00	90	1 46
Timberman ....	23	21	1	9½	.....	2 00	.....	18 50	18 50	2 00	99	66
Mule tender....	306	215	12	322¼	45 00	.....	.....	481 83	40 15	1 50	105	1 32
Laborer, below.	306	215	12	239¾	.....	2 00	.....	479 50	39 96	2 00	78	1 32
Laborer, below.	227	169	9	125¾	.....	2 00	1 60	212 70	26 97	1 94	55	89
Laborer, below.	203	128	8	138	.....	2 00	.....	276 00	34 50	2 00	68	1 14
Laborer, below.	203	141	8	122¾	.....	2 00	.....	244 50	30 56	2 00	60	1 01
Laborer, below.	205	131	8	107	.....	2 00	.....	214 00	26 75	2 00	52	87
Laborer, below.	203	127	8	132½	.....	2 25	.....	207 54	25 94	2 25	46	86
Laborer, below.	156	115	7	132	.....	2 00	.....	264 00	37 71	2 00	85	1 25
Laborer, below.	157	115	7	132	.....	2 00	.....	264 00	37 71	2 00	85	1 25
Laborer, below.	177	115	7	125¾	.....	2 00	.....	247 50	35 36	2 00	70	1 17
Laborer, below.	150	112	6	106¾	.....	2 00	.....	212 50	35 42	2 00	71	1 17
Laborer, below.	130	95	6	77¾	.....	2 00	1 50	153 75	25 62	1 99	59	84
Laborer, below.	125	90	5	81¾	.....	2 00	.....	163 00	32 60	2 00	66	1 08
Laborer, below.	129	100	5	80¾	.....	2 00	.....	161 50	32 30	2 00	63	1 06
Laborer, below.	125	90	5	75¾	.....	2 00	.....	151 50	30 30	2 00	61	1 00
Laborer, below.	128	74	5	71¾	.....	2 00	.....	149 50	29 90	2 00	59	97
Laborer, below.	124	92	5	73	.....	2 00	.....	146 00	29 20	2 00	59	97
Laborer, below.	103	67	4	70¾	.....	2 00	.....	141 50	35 37	2 00	70	1 16
Laborer, below.	100	74	4	70½	.....	2 00	.....	141 00	35 25	2 00	71	1 18
Laborer, below.	103	80	4	68	.....	2 00	.....	136 00	34 00	2 00	66	1 11
Laborer, below.	103	100	4	66½	.....	2 00	.....	133 00	33 25	2 00	65	1 09
Laborer, below.	100	74	4	65	.....	2 00	.....	130 16	32 54	2 00	65	1 09
Laborer, below.	102	48	4	47¾	.....	2 00	.....	95 50	23 87	2 00	47	78
Laborer, below.	101	45	4	46½	.....	2 00	.....	93 00	23 25	2 00	47	77
Laborer, below.	74	59	3	72	.....	2 00	.....	144 00	48 00	2 00	97	1 62
Laborer, below.	71	59	3	67	.....	2 00	.....	134 00	44 66	2 00	91	1 51
Laborer, below.	77	53	3	68¾	.....	2 00	1 75	124 10	41 37	1 82	88	1 35
Laborer, below.	77	67	3	56¾	.....	2 00	.....	112 00	37 33	2 00	73	1 22



Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.	
Laborer, below.	77	57	3	53½	.....	\$2 00	.....	\$107 00	\$35 66	82 00	70	\$1 16	
Laborer, below.	77	57	3	50	.....	22 00	.....	100 00	33 33	82 00	65	1 09	
Laborer, below.	77	57	3	49¾	.....	22 00	.....	99 50	33 16	82 00	65	1 08	
Laborer, below.	74	59	3	49	.....	22 00	.....	98 00	32 66	82 00	66	1 10	
Laborer, below.	79	36	3	40	.....	22 00	.....	80 00	26 66	82 00	51	87	
Laborer, below.	77	57	3	37¾	.....	22 00	.....	75 50	25 16	82 00	50	82	
Laborer, below.	78	30	3	37	.....	22 00	.....	74 00	24 66	82 00	47	81	
Laborer, below.	77	67	3	37	.....	22 00	.....	74 00	24 66	82 00	48	80	
Laborer, below.	52	43	2	51	.....	22 00	.....	102 00	51 00	82 00	98	1 67	
Laborer, below.	52	43	2	48½	.....	22 00	.....	97 00	48 50	82 00	94	1 60	
Laborer, below.	52	43	2	45¾	.....	22 00	.....	91 70	45 85	82 00	90	1 50	
Laborer, below.	52	50	43	43	.....	22 00	.....	86 00	43 00	82 00	83	1 40	
Laborer, below.	52	50	43	43	.....	22 00	.....	86 00	43 00	82 00	83	1 40	
Laborer, below.	51	38	39	39	.....	22 00	.....	78 00	39 00	82 00	77	1 28	
Laborer, below.	52	43	33½	33½	.....	22 25	.....	75 37	37 65	82 25	67	1 21	
Laborer, below.	52	43	2	33½	.....	22 25	.....	75 37	37 65	82 25	67	1 21	
Laborer, below.	52	43	37	37	.....	22 00	.....	74 00	37 00	82 00	71	1 21	
Laborer, below.	52	43	36	36	.....	22 00	.....	72 00	36 00	82 00	70	1 18	
Laborer, below.	51	38	31½	31½	.....	22 25	.....	70 87	35 48	82 25	62	1 16	
Laborer, below.	52	33	35	35	.....	22 00	.....	70 00	35 00	82 00	70	1 15	
Laborer, below.	52	43	34	34	.....	22 00	.....	68 00	34 00	82 00	65	1 11	
Laborer, below.	49	36	30	30	.....	22 25	.....	67 50	33 75	82 25	59	1 14	
Laborer, below.	52	50	33¾	33¾	.....	22 00	.....	66 50	33 25	82 00	63	1 07	
Laborer, below.	51	38	29½	29½	.....	22 00	.....	59 00	29 00	82 00	60	97	
Laborer, below.	51	38	29	29	.....	22 00	.....	58 00	29 00	82 00	57	95	
Laborer, below.	52	43	2	24¾	.....	22 25	.....	55 68	27 81	82 25	48	91	
Laborer, below.	52	33	26½	26½	.....	22 00	.....	53 00	26 50	82 00	52	87	
Laborer, below.	51	38	26	26	.....	22 00	.....	52 00	26 00	82 00	51	86	
Laborer, below.	52	33	23¾	23¾	.....	22 00	.....	46 50	23 25	82 00	44	76	
Laborer, below.	52	33	23	23	.....	22 00	.....	46 00	23 00	82 00	44	75	
Laborer, below.	54	29	2	23	.....	22 00	.....	46 00	23 00	82 00	43	74	
Laborer, below.	54	29	2	23	.....	22 00	.....	46 00	23 00	82 00	43	74	
Laborer, below.	52	33	14	14	.....	22 00	.....	38 00	14 00	82 00	27	46	
Laborer, below.	50	38	1	13½	.....	22 00	.....	27 00	13 50	82 00	28	44	
Laborer, below.	25	22	1	22	.....	22 00	.....	44 00	44 00	82 00	90	1 47	
Laborer, below.	26	20	1	19¾	.....	22 00	.....	38 50	38 50	82 00	73	1 28	
Laborer, below.	26	20	1	18	.....	22 00	.....	36 00	36 00	82 00	69	1 20	
Laborer, below.	26	20	1	18	.....	22 00	.....	36 00	36 00	82 00	69	1 20	
Laborer, below.	23	21	1	16	.....	22 00	.....	32 00	32 00	82 00	70	1 14	
Laborer, below.	25	16	1	16	.....	22 00	.....	32 00	32 00	82 00	64	1 03	
Laborer, below.	25	24	1	14	.....	22 00	.....	28 00	28 00	82 00	56	90	
Laborer, below.	25	16	1	13	.....	22 00	.....	26 00	26 00	82 00	52	84	
Laborer, below.	25	16	1	13	.....	22 00	.....	26 00	26 00	82 00	52	84	
Laborer, below.	25	22	1	12	.....	22 00	.....	24 00	24 00	82 00	50	80	
Laborer, below.	25	16	1	12	.....	22 00	.....	24 00	24 00	82 00	50	77	
Laborer, below.	26	20	1	11	.....	22 00	.....	22 00	22 00	82 00	42	73	
Laborer, below.	27	3	1	10	.....	22 00	.....	20 00	20 00	82 00	37	65	
Laborer, below.	25	7	1	10½	.....	22 00	\$1 50	19 75	19 75	1 88	44	66	
Laborer, below.	23	21	1	9¾	.....	22 00	.....	18 50	18 50	82 00	40	66	
Laborer, below.	25	22	1	9	.....	22 00	.....	18 00	18 00	82 00	36	60	

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Laborer, below.	25	7	1	9	.....	\$2 00	.....	\$18 00	\$18 00	\$2 00	36	\$0 60										
Laborer, below.	25	7	1	9	.....	2 00	.....	18 00	18 00	2 00	36	60										
Laborer, below.	25	16	1	9	.....	2 00	.....	18 00	18 00	2 00	36	58										
Laborer, below.	24	3	1	8	.....	2 00	.....	16 00	16 00	2 00	33	52										
Laborer, below.	27	3	1	5	.....	2 25	.....	11 25	11 25	2 25	18	36										
Laborer, below.	25	7	1	4	.....	2 00	.....	8 00	8 00	2 00	16	27										
Cager.....	306	215	12	273%	.....	1 75	\$1 50	473 56	39 46	1 73	39	1 30										
Cager.....	280	195	11	240%	.....	2 25	1 75	515 36	46 85	2 15	36	1 54										
Cager.....	280	195	11	173%	.....	2 00	.....	347 00	31 55	2 00	62	1 04										
Cager.....	177	115	7	147%	.....	2 00	.....	294 50	42 07	2 00	33	1 39										
Cager.....	167	100	7	108	.....	1 50	1 00	143 12	20 45	1 33	64	68										
Cager.....	74	59	3	57	.....	2 25	.....	128 26	42 75	2 25	77	1 44										
Cager.....	51	38	2	29½	.....	2 00	.....	59 00	29 50	2 00	60	97										
Cager.....	26	20	1	16	.....	2 00	.....	32 00	32 00	2 00	62	1 07										
Cager.....	25	7	1	7	.....	1 75	.....	12 25	12 25	1 75	30	41										
Roadman.....	306	215	12	233%	.....	2 25	1 75	468 00	39 60	2 01	76	1 28										
Roadman.....	255	177	10	188%	.....	2 50	2 00	454 10	45 41	2 41	74	1 49										
Roadman.....	206	141	8	113	.....	2 25	2 00	244 05	30 51	2 16	55	1 00										
Roadman.....	129	79	5	58	.....	2 00	.....	116 00	28 20	2 00	45	75										
Roadman.....	99	70	4	53	.....	2 25	2 00	109 62	27 40	2 07	54	82										
Roadman.....	52	43	2	24%	.....	2 25	2 00	54 06	27 03	2 23	46	89										
Roadman.....	26	20	1	13%	.....	2 00	.....	27 50	27 50	2 00	54	92										
Driver.....	306	215	12	232%	.....	2 00	1 50	462 70	38 56	1 99	76	1 27										
Driver.....	306	215	12	163	.....	2 00	.....	326 00	27 17	2 00	53	1 07										
Driver.....	254	172	10	143%	.....	2 00	.....	287 50	28 75	2 00	57	95										
Driver.....	254	172	10	137%	.....	2 00	1 50	282 62	28 26	2 06	56	93										
Driver.....	228	159	9	131%	.....	2 25	2 00	266 01	29 56	2 02	58	97										
Driver.....	202	151	8	113	.....	2 25	2 00	253 55	30 44	2 24	51	1 05										
Driver.....	207	156	8	102½	.....	2 25	1 50	206 26	25 78	2 02	49	84										
Driver.....	205	130	8	67%	.....	2 00	.....	134 50	16 81	2 00	33	55										
Driver.....	128	105	5	91%	.....	2 00	.....	183 00	36 60	2 00	72	1 20										
Driver.....	125	90	5	76%	.....	2 00	.....	153 50	30 70	2 00	62	1 02										
Driver.....	100	74	4	87%	.....	2 00	.....	175 50	43 87	2 00	88	1 38										
Driver.....	102	79	4	71%	.....	2 00	.....	144 50	36 12	2 00	71	1 18										
Driver.....	99	70	4	58%	.....	2 00	.....	117 50	29 37	2 00	60	97										
Driver.....	49	36	2	40	.....	2 00	.....	80 00	40 00	2 00	32	1 36										
Driver.....	51	31	2	35½	\$45 00	.....	.....	62 97	31 48	1 77	71	1 02										
Driver.....	52	43	2	23½	.....	2 00	.....	47 20	23 60	2 00	46	77										
Driver.....	25	24	1	14	.....	2 00	.....	28 00	28 00	2 00	56	81										
Driver.....	25	16	1	6%	.....	2 00	.....	13 50	13 50	2 00	30	44										
Brusher.....	177	115	7	122	.....	2 00	.....	244 00	34 90	2 00	69	115										
Brusher.....	104	58	4	36%	.....	2 00	.....	73 50	18 37	2 00	36	60										
Oiler.....	75	45	3	74	25 00	.....	.....	72 00	24 00	97	99	79										
Trapper.....	229	148	9	136%	.....	75	.....	102 56	11 40	75	60	38										
Trapper.....	229	148	9	127%	.....	75	.....	96 93	10 77	75	56	36										
Trapper.....	206	141	8	124%	.....	75	.....	87 18	10 90	75	60	36										
Trapper.....	177	115	7	135%	30 00	1 00	75	153 69	21 96	1 13	77	73										
Trapper.....	188	121	7	83½	.....	75	.....	62 24	8 89	75	47	29										
Trapper.....	150	112	6	101	.....	75	.....	75 75	12 62	75	67	42										
Trapper.....	125	90	5	80%	.....	75	.....	60 18	12 04	75	64	40										

Table VIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Trapper.....	125	90	5	79	.....	\$0 75	.....	\$59 25	\$11 85	\$0 75	63	\$0 39
Trapper.....	125	90	5	71¾	.....	75	.....	53 82	10 76	75	58	36
Trapper.....	102	75	4	36	.....	75	.....	27 00	6 75	75	35	22
Trapper.....	77	67	3	56½	.....	75	.....	42 37	14 12	75	74	46
Trapper.....	78	70	3	62¾	.....	1 00	\$0 50	41 37	13 79	66	81	45
Trapper.....	74	59	3	54	.....	75	.....	40 50	13 52	75	74	46
Trapper.....	77	67	3	53¾	.....	75	.....	40 01	13 34	75	70	44
Trapper.....	52	50	2	53¾	.....	75	.....	40 31	20 15	75	104	65
Trapper.....	52	43	2	42½	.....	75	.....	31 87	15 93	75	83	52
Trapper.....	51	38	2	31½	.....	75	.....	23 44	11 72	75	61	38
Trapper.....	51	31	2	19½	.....	75	.....	14 62	7 31	75	40	24
Trapper.....	52	33	2	17½	.....	75	.....	13 13	6 56	75	35	22
Trapper.....	23	21	1	19¾	.....	75	.....	14 81	14 81	75	87	53
Trapper.....	25	22	1	18¾	.....	75	.....	14 06	14 06	75	76	47
Trapper.....	26	15	1	14½	.....	75	.....	10 87	10 87	75	58	35

## RECAPITULATION OF TABLE V.—Establishment III.

## MINERS, PAID BY THE TON.

No. of MEN.	No. of months on the pay- roll.	Gross earnings.	Deduc- tions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
56...	12 Months...	\$21,906 59	\$481 35	\$21,425 24	\$382 23	\$31 85	.53	\$2 26	\$1 03
49...	11 ".....	18,774 42	403 93	18,370 49	374 90	34 08	.58	2 30	1 10
22...	10 ".....	6,926 92	150 90	6,776 02	308 00	30 80	.55	2 23	1 01
39...	9 ".....	10,142 71	220 07	9,922 64	254 42	28 27	.52	2 14	38
29...	8 ".....	6,366 72	138 11	6,228 61	214 73	26 84	.48	2 06	38
32...	7 ".....	5,669 75	123 57	5,546 18	173 31	24 77	.46	1 98	38
40...	6 ".....	6,526 01	142 14	6,383 87	159 59	26 59	.55	1 91	38
41...	5 ".....	5,692 66	125 11	5,567 55	135 79	27 15	.54	1 98	39
49...	4 ".....	5,295 00	114 78	5,180 22	105 72	26 43	.52	1 98	38
143...	3 ".....	12,156 80	264 61	11,892 19	83 16	27 72	.57	1 94	32
75...	2 ".....	3,523 93	76 65	3,447 28	45 96	22 98	.48	1 85	75
83...	1 ".....	2,267 01	49 23	2,217 78	26 72	26 72	.50	2 04	88
658...	.....	\$105,248 52	\$2,290 45	\$102,958 07	.....	\$29 09	.53	\$2 13	\$0 91

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.	Net earnings.	AVERAGES.			
		Days.		Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Bosses .....	10	1,027½	\$2,587 42	\$49 75	80	\$2 51	\$1 53
Engineers .....	7	795	1,873 25	47 93	86	2 35	1 59
Firemen .....	2	615½	940 22	39 18	100	1 53	1 29
Blacksmiths .....	3	301	666 12	40 26	71	2 21	1 32
Carpenters .....	4	376	764 78	36 62	72	2 03	1 19
Weighmen .....	3	354½	619 91	29 04	66	1 75	62
Masons .....	7	247½	655 86	29 18	41	2 65	95
Machinist .....	1	137	311 90	31 19	54	2 28	1 03
Teamster .....	1	229½	329 92	32 99	90	1 44	1 09
Mule tender .....	1	322½	481 83	40 15	100	1 50	1 32
Timbermen .....	9	1,004½	2,008 81	37 70	74	2 00	1 24
Roadmen .....	7	683½	1,473 33	31 43	58	2 16	1 02
Cagers .....	9	1,051½	2,005 04	32 99	68	1 91	1 09
Drivers .....	18	1,597	3,224 81	29 92	60	2 02	98
Laborers, escapement .....	8	304½	686 80	38 77	67	2 26	1 27
Laborers, top .....	83	5,176	7,897 75	28 72	64	1 52	80
Laborers, below .....	83	3,930½	7,901 24	31 73	60	2 01	99
Brushers .....	2	158½	317 50	26 63	52	2 00	87
Trappers, boys .....	22	1,420½	1,105 96	12 46	65	78	41
Oilier, boy .....	1	74	72 00	24 00	99	97	79
	281	19,806½	\$35,924 45				

TABLE IX.—Establishment III.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Un- der \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'nths	2	2	15	23	10	4	.....	.....	.....	.....	.....	.....	.....	56
11 "	2	6	9	14	10	3	1	1	1	1	.....	1	.....	49
10 "	.....	5	5	6	5	.....	1	.....	.....	.....	.....	.....	.....	22
9 "	3	8	10	15	3	.....	.....	.....	.....	.....	.....	.....	.....	39
8 "	4	6	12	3	3	1	.....	.....	.....	.....	.....	.....	.....	29
7 "	9	7	9	4	.....	3	.....	.....	.....	.....	.....	.....	.....	32
6 "	9	6	13	8	3	1	.....	.....	.....	.....	.....	.....	.....	40
5 "	10	8	8	6	7	.....	2	.....	.....	.....	.....	.....	.....	41
4 "	9	14	11	7	6	2	.....	.....	.....	.....	.....	.....	.....	49
3 "	26	35	29	31	9	7	4	.....	.....	2	.....	.....	.....	143
2 "	32	15	12	8	2	3	2	.....	1	.....	.....	.....	.....	75
1 "	31	9	11	9	9	9	2	1	1	.....	1	.....	.....	83
Totals.	*137	121	144	134	67	33	12	2	3	3	1	1	.....	†658

\*Average earnings \$15.51 for an average of 9.9 days' work.

†Average earnings of all men \$29.09 per month.

Number who earned more than the average, 300, or 46 per cent. of the whole.

Number who earned less than the average, 353, or 54 per cent. of the whole.

**TABLE X.—Summaries of Results Shown by Monthly Pay-rolls.****ESTABLISHMENT IV.—Coal Mine in LaSalle County.**

CONDITIONS:—Depth of shaft, 110 feet; thickness of coal, 5½ feet; workings wet; system of working, pillar-and-room; mining done by hand; screen bars ½ of an inch apart; check-weightman at the scale; price of mining, 80 cents a ton for screened coal.

**COAL MINERS, PAID BY THE TON.**

MONTHS.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	Whole number of men on the pay-roll during the month.		Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.		Average net earnings per man per month.		Average net earnings per man per day.		Average number of tons mined per man per day.		Average number of days' work performed per man.		Number of men required to produce same tonnage if at work full running time.
	Days	Days		Men.	Days.			Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.				
May .....	26	10¼	276	2,728	9,460	\$3,971 14	\$32 50	\$3 29	3.47	9.9	266							
June .....	25	12½	275	1,673	6,111	5,243 82	19 07	3 13	3.65	6.1	134							
July .....	27	23	281	3,997	15,385	12,554 73	44 70	3 14	3.85	14.2	174							
August .....	25	22¾	284	5,208	20,460	16,500 89	58 10	3 17	3.93	18.3	218							
September.....	27	27	321	6,324	26,170	20,367 89	63 45	3 22	4.14	19.7	234							
October.....	25	22	343	5,787	23,029	18,091 65	52 75	3 13	4	17	263							
November.....	25	16¼	347	4,884	17,935	14,444 49	41 63	2 96	3.67	14	301							
December.....	26	17¾	348	5,170	20,580	15,997 72	45 97	3 10	4	14.9	291							
January.....	23	14¾	352	4,272	18,639	14,716 03	41 81	3 44	4.36	12.1	285							
February.....	25	11½	358	3,589	15,371	12,445 53	34 76	3 47	4.28	10	312							
March.....	26	15¼	358	4,684	19,377	15,920 99	44 47	3 40	4.14	13.1	306							
April.....																		
The year.....	280	192¾	453	48,311	192,517	\$155,252 88	43 82	3 21	3.98	13.64	251							
Monthly Avs..	25.5	17.6	322	4,392	17,502	14,113 90	43 82	3 21	54.34	13.64	251							

\* No miners employed in this month.

**OTHER EMPLOYÉES, PAID BY THE DAY OR MONTH.**

May .....	26	10¼	126	2,362	.....	\$4,263 23	\$33 83	\$1 80	.....	18.7	.....
June .....	26	10½	79	1,706¼	.....	3,292 05	45 10	1 93	.....	23.4	.....
July .....	25	12½	58	962	.....	1,865 08	32 16	1 94	.....	16.6	.....
August.....	27	23	59	1,351¼	.....	2,537 45	43 01	1 88	.....	22.9	.....
September.....	25	22¾	59	1,331¼	.....	2,512 97	42 60	1 89	.....	22.6	.....
October.....	27	27	62	1,567¼	.....	2,958 63	47 72	1 89	.....	25.3	.....
November.....	25	22	62	1,518	.....	2,951 00	47 60	1 94	.....	24.5	.....
December.....	25	16¼	62	1,234	.....	2,376 60	38 33	1 93	.....	18.3	.....
January.....	26	17¾	73	1,476¼	.....	2,833 16	38 81	1 92	.....	20.2	.....
February.....	23	14¾	72	1,256¼	.....	2,408 95	33 39	1 91	.....	17.4	.....
March.....	25	11½	64	1,032½	.....	1,972 10	30 81	1 91	.....	16.1	.....
April.....	26	15¼	65	1,217¼	.....	2,280 75	35 09	1 87	.....	18.7	.....
The year .....	306	203¼	183	17,013¼	.....	\$32,246 97	\$38 62	\$1 90	.....	20.4	.....
Monthly Avs..	25.5	16.9	70	1,418	.....	2,687 25	38 62	1 90	.....	20.4	.....
Totals .....	586	396	*636	65,324¼	192,517.1	\$95,930 05	.....	.....	54.34	.....	.....
General Av..	25.5	17.2	392	5,810	17,502	16,801 15	\$44 75	\$3 00	54.34	14.9	.....

\*In addition to these, 76 transient miners and miners' sons worked 6,160 days during the year, mining 15,336 tons and earning \$12,697; and 57 laborers worked 256 days and earned \$790.

TABLE XI.--Individual Earnings and Working Time.

## ESTABLISHMENT IV.—Coal Mine in LaSalle County.

*Conditions of employment given at the head of preceding table.*

## COAL MINERS, PAID BY THE TON.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner.....	280	193	11	150	\$837 48	\$29 93	\$807 55	\$73 41	\$5 38	54	78	\$2 44	
Miner.....	280	193	11	159	809 62	34 49	775 13	70 47	4 88	57	83	2 31	
Miner.....	280	193	11	162	791 92	38 18	753 74	68 52	4 65	58	84	2 25	
Miner.....	280	193	11	161	742 10	36 13	705 97	64 18	4 38	58	83	2 21	
Miner.....	280	193	11	154	712 10	25 29	686 81	62 37	4 46	55	80	2 05	
Miner.....	280	193	11	165	700 45	26 79	673 66	61 24	4 08	59	85	2 01	
Miner.....	280	193	11	165	693 25	26 79	666 46	67 59	4 04	59	85	1 96	
Miner.....	280	193	11	161	698 76	33 66	665 10	60 50	4 13	58	83	1 99	
Miner.....	280	193	11	154	677 20	27 32	649 88	59 08	4 22	55	80	1 94	
Miner.....	280	193	11	154	677 20	27 32	649 88	59 08	4 22	55	80	1 94	
Miner.....	280	193	11	157	681 80	33 85	647 95	58 90	4 13	56	81	1 93	
Miner.....	280	193	11	153	664 85	25 47	639 38	58 13	4 18	55	79	1 91	
Miner.....	280	193	11	153	661 35	25 35	636 00	57 82	4 16	55	79	1 90	
Miner.....	280	193	11	153	667 82	33 10	634 72	57 70	4 15	55	80	1 89	
Miner.....	280	193	11	154	661 32	28 82	632 50	57 50	4 11	52	80	1 89	
Miner.....	280	193	11	157	658 15	27 02	631 13	57 38	4 02	56	81	1 88	
Miner.....	280	193	11	159	657 92	32 57	625 45	56 85	3 93	57	82	1 87	
Miner.....	280	193	11	153	655 48	30 47	625 01	56 82	4 09	55	79	1 87	
Miner.....	280	193	11	155	648 63	25 48	623 15	56 65	4 02	55	80	1 86	
Miner.....	280	193	11	155	648 63	25 48	623 15	56 65	4 02	55	80	1 86	
Miner.....	280	193	11	155	647 36	32 33	615 03	55 91	3 97	55	80	1 84	
Miner.....	280	193	11	156	647 40	32 05	614 85	55 90	3 94	56	81	1 84	
Miner.....	280	193	11	155	638 95	27 82	611 13	55 56	3 94	55	80	1 82	
Miner.....	280	193	11	153	631 20	25 47	605 73	55 07	3 96	53	79	1 81	
Miner.....	280	193	11	155	630 35	26 32	604 03	54 91	3 90	54	80	1 80	
Miner.....	280	193	11	157	636 10	32 69	603 41	54 50	3 84	60	81	1 80	
Miner.....	280	193	11	143	629 86	31 33	598 53	54 41	4 04	53	77	1 79	
Miner.....	280	193	11	153	620 40	25 41	594 99	54 09	3 99	55	79	1 78	
Miner.....	280	193	11	149	625 80	31 41	594 39	54 03	3 99	50	77	1 77	
Miner.....	280	193	11	166	623 80	31 29	592 51	53 87	3 57	59	86	1 77	
Miner.....	280	193	11	158	620 00	29 02	590 98	53 73	3 74	55	82	1 76	
Miner.....	280	193	11	154	614 20	26 75	587 45	53 40	3 81	55	80	1 75	
Miner.....	280	193	11	155	614 95	27 82	587 13	53 38	3 78	55	80	1 75	
Miner.....	280	193	11	148	609 90	25 52	584 38	53 13	3 95	53	77	1 74	
Miner.....	280	193	11	152	614 78	31 02	583 76	53 07	3 84	54	79	1 74	
Miner.....	280	193	11	150	611 58	30 68	580 90	52 81	3 87	54	78	1 73	
Miner.....	280	193	11	155	604 30	26 71	577 59	52 59	3 72	55	80	1 72	
Miner.....	280	193	11	145	600 65	25 39	575 26	52 30	3 96	52	75	1 72	
Miner.....	280	193	11	159	600 40	28 68	571 72	51 98	3 60	57	82	1 71	
Miner.....	280	193	11	155	594 30	26 35	567 95	51 63	3 66	55	80	1 70	
Miner.....	280	193	11	157	593 70	26 54	567 16	51 56	3 61	56	81	1 69	
Miner.....	280	193	11	151	595 52	30 41	565 11	51 37	3 74	58	83	1 69	
Miner.....	280	193	11	142	591 68	30 14	561 54	51 05	3 95	51	74	1 68	
Miner.....	280	193	11	149	585 60	24 13	561 47	51 04	3 77	53	77	1 68	
Miner.....	280	193	11	146	574 55	22 30	552 25	50 20	2 78	52	76	1 65	

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	280	193	11	138	\$570 70	\$22 29	\$548 41	\$49 86	\$3 98	49	71	\$1 64
Miner.....	280	193	11	146	570 10	22 12	547 98	49 82	3 75	52	76	1 63
Miner.....	280	193	11	136	569 45	21 72	547 73	49 80	4 03	48	70	1 63
Miner.....	280	193	11	154	572 95	27 28	545 67	49 61	3 54	55	80	1 63
Miner.....	280	193	11	159	573 30	29 36	543 94	49 45	3 42	57	82	1 62
Miner.....	280	193	11	159	573 30	29 36	543 94	49 45	3 42	57	82	1 62
Miner.....	280	193	11	167	572 15	29 77	542 38	49 38	3 25	60	87	1 62
Miner.....	280	193	11	158	571 07	29 62	541 45	49 21	3 43	57	82	1 62
Miner.....	280	193	11	167	569 85	29 80	540 05	49 10	3 23	60	87	1 61
Miner.....	280	193	11	150	568 42	29 34	539 08	49 01	3 59	54	78	1 61
Miner.....	280	193	11	146	562 84	28 81	534 03	48 55	3 61	53	76	1 60
Miner.....	280	193	11	150	558 25	26 10	532 15	48 38	3 55	54	77	1 59
Miner.....	280	193	11	149	558 75	27 22	531 53	48 32	3 15	53	77	1 59
Miner.....	280	193	11	157	553 15	26 54	526 61	47 88	3 35	56	81	1 57
Miner.....	280	193	11	145	543 75	24 69	519 06	47 19	3 58	52	75	1 52
Miner.....	280	193	11	156	540 15	28 06	512 09	46 55	3 28	56	81	1 53
Miner.....	280	193	11	137	536 42	27 85	508 57	46 23	3 71	49	71	1 52
Miner.....	280	193	11	145	536 40	28 13	508 27	46 27	3 51	51	75	1 52
Miner.....	280	193	11	149	530 26	28 50	501 76	45 61	3 37	53	77	1 50
Miner.....	280	193	11	150	526 20	26 10	500 10	45 47	3 33	54	77	1 50
Miner.....	280	193	11	157	525 20	27 37	497 83	45 26	3 17	56	81	1 50
Miner.....	280	193	11	156	525 40	27 82	497 58	45 23	3 19	56	81	1 49
Miner.....	280	193	11	156	524 10	28 26	495 84	45 08	3 18	56	81	1 48
Miner.....	280	193	11	161	523 70	27 91	495 79	45 07	3 08	57	83	1 48
Miner.....	280	193	11	159	522 00	27 75	494 25	44 92	3 11	57	82	1 48
Miner.....	280	193	11	159	522 00	27 75	494 25	44 92	3 11	57	82	1 48
Miner.....	280	193	11	148	521 60	27 59	494 01	44 91	3 34	53	77	1 47
Miner.....	280	193	11	147	516 65	25 05	491 60	44 70	3 05	58	83	1 47
Miner.....	280	193	11	161	519 70	28 76	490 94	44 63	3 05	58	83	1 47
Miner.....	280	193	11	141	516 62	26 67	489 95	44 54	3 47	50	73	1 46
Miner.....	280	193	11	159	516 75	27 54	489 21	44 48	3 08	57	82	1 46
Miner.....	280	193	11	169	516 75	27 54	489 21	44 48	3 08	57	82	1 46
Miner.....	280	193	11	160	516 90	27 71	489 19	44 47	3 06	57	83	1 46
Miner.....	280	193	11	156	515 35	27 46	487 89	44 45	3 13	56	81	1 46
Miner.....	280	193	11	145	512 30	25 20	487 10	44 30	3 36	50	73	1 46
Miner.....	280	193	11	156	513 05	26 04	487 01	44 30	3 12	56	81	1 45
Miner.....	280	193	11	157	511 80	26 18	485 62	44 15	3 09	56	81	1 45
Miner.....	280	193	11	145	508 55	24 18	484 37	44 03	3 34	52	75	1 45
Miner.....	280	193	11	146	508 20	24 95	483 25	43 93	3 31	52	75	1 44
Miner.....	280	193	11	149	508 05	27 19	480 86	43 71	3 25	53	77	1 44
Miner.....	280	193	11	156	501 90	27 11	478 79	43 53	3 07	56	81	1 43
Miner.....	280	193	11	156	503 50	25 86	477 64	43 41	3 06	56	81	1 43
Miner.....	280	193	11	157	504 40	27 05	477 35	43 40	3 01	56	81	1 42
Miner.....	280	193	11	165	504 50	27 36	477 14	43 37	2 89	59	85	1 42
Miner.....	280	193	11	163	504 40	27 36	477 04	43 37	2 89	59	85	1 42
Miner.....	280	193	11	142	502 25	26 37	475 88	43 26	3 35	50	73	1 42
Miner.....	280	193	11	155	502 80	27 20	475 60	43 24	3 07	55	80	1 42
Miner.....	280	193	11	158	502 60	27 16	475 44	43 22	3 01	56	82	1 42
Miner.....	280	193	11	158	502 60	27 16	475 44	43 22	3 01	56	82	1 42
Miner.....	280	193	11	157	502 10	27 05	475 05	43 19	3 02	56	81	1 42



Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Am't.		
Miner .....	280	198	11	131	\$500 42	\$25 74	\$474 68	\$43 15	\$3 63	47	68	\$1 42												
Miner .....	280	193	11	155	501 15	26 98	474 17	43 17	3 06	55	80	1 42												
Miner .....	280	193	11	145	500 25	26 26	473 99	43 09	3 27	52	75	1 41												
Miner .....	280	193	11	153	499 95	26 29	473 66	43 06	3 10	55	79	1 41												
Miner .....	280	193	11	153	499 95	26 29	473 66	43 06	3 10	55	79	1 41												
Miner .....	280	193	11	146	493 90	24 34	469 56	42 69	3 22	52	76	1 40												
Miner .....	280	193	11	142	494 72	25 95	468 77	42 62	3 30	51	74	1 40												
Miner .....	280	193	11	153	492 70	26 61	466 99	42 37	3 05	55	79	1 39												
Miner .....	280	193	11	144	491 50	25 98	465 52	42 32	3 23	51	74	1 39												
Miner .....	280	193	11	156	488 65	24 07	464 58	42 23	2 98	56	81	1 39												
Miner .....	280	193	11	156	488 65	24 07	464 58	42 23	2 98	56	81	1 39												
Miner .....	280	193	11	152	489 85	26 47	463 38	42 13	3 05	54	79	1 38												
Miner .....	280	193	11	158	489 55	26 56	462 99	42 09	2 93	56	82	1 38												
Miner .....	280	193	11	158	489 55	26 56	462 99	42 09	2 93	56	82	1 38												
Miner .....	280	193	11	150	487 75	26 00	461 75	41 98	3 08	54	78	1 38												
Miner .....	280	193	11	156	488 40	26 67	461 73	41 98	2 96	56	81	1 38												
Miner .....	280	193	11	156	487 45	25 94	461 51	41 96	2 96	56	81	1 38												
Miner .....	280	193	11	150	486 95	26 31	460 64	41 88	3 07	54	78	1 38												
Miner .....	280	193	11	156	485 10	25 86	459 24	41 75	2 94	56	81	1 37												
Miner .....	280	193	11	153	483 80	25 37	458 43	41 68	3 00	55	79	1 37												
Miner .....	280	193	11	155	484 05	26 32	457 73	41 61	2 95	55	80	1 37												
Miner .....	280	193	11	149	482 80	25 64	457 16	41 56	3 07	53	77	1 36												
Miner .....	280	193	11	153	482 85	26 31	456 54	41 50	2 98	55	79	1 36												
Miner .....	280	193	11	153	482 85	26 31	456 54	41 50	2 98	55	79	1 36												
Miner .....	280	193	11	157	482 20	26 09	456 11	41 50	2 91	56	82	1 36												
Miner .....	280	193	11	151	481 10	25 94	455 16	41 38	3 02	54	78	1 36												
Miner .....	280	193	11	151	481 10	25 94	455 16	41 38	3 02	54	78	1 36												
Miner .....	280	193	11	152	480 15	26 23	453 92	41 27	2 99	54	79	1 35												
Miner .....	280	193	11	157	479 90	26 09	453 81	41 26	2 89	56	82	1 35												
Miner .....	280	193	11	147	476 35	25 36	450 99	41 00	3 07	53	77	1 35												
Miner .....	280	193	11	148	476 70	25 82	450 88	41 00	3 04	53	77	1 35												
Miner .....	280	193	11	157	476 90	26 18	450 72	41 00	2 88	56	82	1 35												
Miner .....	280	193	11	148	475 95	25 58	450 37	40 94	3 01	53	77	1 34												
Miner .....	280	193	11	148	475 95	25 58	450 37	40 94	3 04	53	77	1 34												
Miner .....	280	193	11	158	475 65	26 26	449 39	40 85	2 84	56	82	1 34												
Miner .....	280	193	11	150	473 55	25 99	447 56	40 69	2 98	54	78	1 34												
Miner .....	280	193	11	152	471 25	25 84	445 41	40 49	2 93	54	79	1 33												
Miner .....	280	193	11	152	470 65	25 60	445 05	40 46	2 93	54	79	1 33												
Miner .....	280	193	11	150	467 45	25 74	441 71	40 16	2 94	54	78	1 32												
Miner .....	280	193	11	148	467 25	26 08	441 17	40 11	2 98	53	77	1 32												
Miner .....	280	193	11	151	466 65	25 58	441 07	40 10	2 92	54	78	1 32												
Miner .....	280	193	11	153	466 10	25 68	440 42	40 04	2 88	55	79	1 31												
Miner .....	280	193	11	154	465 95	25 67	440 28	40 03	2 86	55	80	1 31												
Miner .....	280	193	11	154	465 95	25 70	440 25	40 02	2 86	55	80	1 31												
Miner .....	280	193	11	156	465 70	25 70	440 00	40 00	2 82	56	81	1 31												
Miner .....	280	193	11	158	465 00	25 66	439 34	39 94	2 78	56	82	1 31												
Miner .....	280	193	11	145	464 35	25 34	439 01	39 91	3 03	52	75	1 31												
Miner .....	280	193	11	150	463 55	25 00	438 55	39 87	2 92	54	78	1 31												
Miner .....	280	193	11	149	462 80	25 36	437 44	39 77	2 94	53	77	1 30												
Miner .....	280	193	11	151	460 00	25 46	434 54	39 50	2 88	54	78	1 30												

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Am't.			
Miner .....	280	193	11	154	\$459 75	\$25 34	\$434 41	\$39 50	\$2 82	55	80	\$1 30												
Miner .....	280	193	11	156	459 35	25 08	434 27	39 48	2 78	56	81	1 30												
Miner .....	280	193	11	155	459 65	25 48	434 17	39 47	2 80	55	80	1 30												
Miner .....	280	193	11	148	459 10	25 40	433 70	39 43	2 93	53	77	1 29												
Miner .....	280	193	11	152	456 15	24 65	431 50	39 23	2 84	54	79	1 29												
Miner .....	280	193	11	148	455 55	24 63	430 92	39 18	2 91	53	77	1 29												
Miner .....	280	193	11	149	453 65	24 82	428 83	38 99	2 88	53	77	1 28												
Miner .....	280	193	11	144	451 60	25 08	426 52	38 78	2 96	51	75	1 28												
Miner .....	280	193	11	152	450 45	24 56	425 89	38 72	2 80	51	79	1 27												
Miner .....	280	193	11	145	450 70	24 92	425 78	37 71	2 94	52	75	1 27												
Miner .....	280	193	11	145	448 50	24 33	424 17	38 56	2 90	52	75	1 27												
Miner .....	280	193	11	151	447 65	24 86	422 79	38 44	2 80	54	78	1 26												
Miner .....	280	193	11	145	447 30	24 86	422 44	38 40	2 91	52	75	1 26												
Miner .....	280	193	11	146	445 65	24 76	420 89	38 26	2 88	52	76	1 26												
Miner .....	280	193	11	146	445 65	24 76	420 89	38 26	2 88	52	76	1 26												
Miner .....	280	193	11	155	445 85	25 00	420 85	38 26	2 72	55	80	1 26												
Miner .....	280	193	11	155	445 85	25 00	420 85	38 26	2 72	55	80	1 26												
Miner .....	280	193	11	146	444 60	24 73	419 87	38 17	2 88	52	76	1 25												
Miner .....	280	193	11	146	444 60	24 73	419 87	38 17	2 88	52	76	1 25												
Miner .....	280	193	11	143	443 95	24 73	419 22	38 11	2 93	51	74	1 25												
Miner .....	280	193	11	152	431 30	24 31	406 99	37 00	2 68	54	79	1 21												
Miner .....	280	193	11	152	431 30	24 31	406 99	37 00	2 68	54	79	1 21												
Miner .....	280	193	11	146	420 15	22 55	397 60	36 15	2 72	52	76	1 19												
Miner .....	280	193	11	146	420 15	22 55	397 60	36 15	2 72	52	76	1 19												
Miner .....	280	193	11	138	418 35	22 42	395 93	35 99	2 87	49	70	1 18												
Miner .....	280	193	11	135	418 75	23 11	395 64	35 97	2 93	48	70	1 18												
Miner .....	280	193	11	147	419 30	23 73	395 57	35 96	2 70	53	77	1 18												
Miner .....	280	193	11	138	415 85	23 40	392 45	35 68	2 84	49	77	1 17												
Miner .....	280	193	11	140	414 75	23 47	391 28	35 57	2 80	50	72	1 17												
Miner .....	280	193	11	136	414 55	23 29	391 26	35 57	2 88	49	70	1 17												
Miner .....	280	193	11	142	409 85	23 15	386 70	35 16	2 72	51	74	1 15												
Miner .....	280	193	11	140	407 65	23 05	384 60	34 97	2 75	50	72	1 15												
Miner .....	280	193	11	118	403 48	22 21	381 27	34 66	3 23	42	61	1 14												
Miner .....	280	193	11	140	399 45	22 84	376 61	34 24	2 69	50	72	1 12												
Miner .....	280	193	11	140	396 45	22 84	373 61	33 97	2 67	50	72	1 11												
Miner .....	280	193	11	139	393 00	22 64	370 36	33 67	2 66	49	71	1 11												
Miner .....	280	193	11	126	391 79	22 04	369 75	33 61	2 93	42	66	1 10												
Miner .....	280	193	11	142	389 40	22 40	367 00	33 28	2 68	51	74	1 09												
Miner .....	280	193	11	158	375 00	22 33	352 67	32 06	2 23	56	82	1 05												
Miner .....	280	193	11	125	343 65	20 00	323 65	29 42	2 59	45	65	97												
Miner .....	280	193	11	153	336 37	20 19	316 18	28 74	2 07	55	79	94												
Miner .....	280	193	11	120	330 04	19 06	310 98	28 27	2 50	43	62	93												
Miner .....	254	182	10	161	664 50	31 04	633 46	63 35	3 93	63	89	2 08												
Miner .....	254	182	10	145	648 16	31 62	616 54	61 65	4 25	59	82	2 02												
Miner .....	254	182	10	161	646 15	31 94	614 21	61 42	3 81	63	89	2 02												
Miner .....	254	182	10	136	563 88	29 14	534 74	53 47	3 93	54	74	1 76												
Miner .....	254	180	10	135	551 75	21 77	529 98	53 00	3 93	53	75	1 74												
Miner .....	254	182	10	148	550 60	26 19	521 41	52 44	3 54	58	81	1 72												
Miner .....	254	182	10	147	537 95	25 69	512 26	51 23	3 48	58	81	1 68												
Miner .....	254	177	10	127	531 45	20 61	510 81	51 08	4 02	50	70	1 68												

Table XI.—Continued.

OCCUPATION.	Possible working time omitting Sundays and holidays.	Actual running time of the mine.	No of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	255	180	10	139	\$535 26	\$37 86	\$507 40	\$50 74	\$3 65	55	77	\$1 67
Miner.....	255	181	10	131	508 45	21 02	487 43	48 74	3 72	71	73	1 60
Miner.....	254	182	10	152	507 75	26 45	481 30	48 13	3 17	60	84	1 58
Miner.....	255	180	10	153	490 10	25 60	464 50	46 45	3 03	60	85	1 53
Miner.....	254	182	10	148	479 75	25 50	454 25	45 43	3 07	58	81	1 50
Miner.....	254	182	10	136	472 60	24 15	448 45	44 85	3 30	54	74	1 47
Miner.....	254	182	10	152	472 85	25 19	447 66	44 76	2 94	60	84	1 44
Miner.....	254	182	10	149	464 85	26 29	438 56	43 86	3 02	59	82	1 44
Miner.....	254	182	10	144	461 95	24 85	437 10	43 71	3 04	57	80	1 44
Miner.....	254	182	10	142	459 70	24 68	435 07	43 51	3 07	56	78	1 43
Miner.....	254	182	10	142	450 20	24 39	425 81	42 58	3 00	56	78	1 40
Miner.....	254	182	10	144	448 85	23 55	425 30	42 53	2 95	57	80	1 40
Miner.....	254	182	10	146	447 55	24 32	423 23	42 32	2 90	57	80	1 39
Miner.....	254	182	10	142	443 65	24 24	419 41	41 94	2 95	56	78	1 38
Miner.....	254	182	10	146	443 25	24 23	419 02	41 90	2 87	57	80	1 37
Miner.....	254	182	10	149	439 50	24 55	414 95	41 49	2 78	59	82	1 36
Miner.....	254	182	10	141	437 45	23 83	413 62	41 36	2 93	56	77	1 36
Miner.....	254	182	10	139	436 75	23 79	413 96	41 30	2 97	55	77	1 36
Miner.....	254	182	10	137	436 65	23 72	412 93	41 29	3 01	54	75	1 36
Miner.....	254	182	10	134	435 35	22 88	412 47	41 25	3 08	53	74	1 36
Miner.....	254	182	10	140	434 35	23 78	410 77	41 08	2 93	56	77	1 35
Miner.....	254	182	10	136	430 30	23 55	406 75	40 67	3 00	54	74	1 34
Miner.....	254	182	10	142	429 10	23 55	406 55	40 55	2 85	56	78	1 33
Miner.....	254	182	10	133	421 95	23 10	398 85	39 38	3 00	52	73	1 31
Miner.....	254	182	10	137	416 85	22 63	394 22	39 42	2 90	54	75	1 30
Miner.....	254	182	10	140	411 60	22 91	388 69	38 87	2 77	55	77	1 28
Miner.....	254	182	10	133	407 35	22 53	384 82	38 48	2 75	55	77	1 26
Miner.....	254	182	10	133	400 20	22 02	378 18	37 82	2 74	54	76	1 25
Miner.....	254	177	10	126	393 90	20 85	373 05	37 30	2 96	50	72	1 22
Miner.....	254	182	10	126	390 38	21 66	368 72	36 87	2 93	50	70	1 21
Miner.....	254	182	10	135	387 80	21 82	365 98	36 59	2 71	53	74	1 20
Miner.....	255	170	10	117	385 05	20 74	364 31	36 45	3 11	46	64	1 20
Miner.....	254	182	10	130	370 50	21 24	349 26	34 93	2 69	52	71	1 15
Miner.....	254	177	10	123	368 20	19 92	348 28	34 83	2 83	48	69	1 14
Miner.....	254	182	10	128	367 70	20 90	346 80	34 68	2 71	50	70	1 14
Miner.....	228	157	9	127	517 34	26 16	491 18	54 58	3 87	56	81	1 80
Miner.....	229	165	9	145	514 15	26 11	488 04	54 23	3 37	63	88	1 78
Miner.....	228	157	9	124	503 50	23 87	479 63	53 30	3 48	61	88	1 75
Miner.....	229	165	9	140	448 75	23 76	424 99	47 22	3 04	61	85	1 55
Miner.....	229	165	9	140	448 75	23 76	424 99	47 22	3 04	61	85	1 55
Miner.....	229	169	9	135	432 55	22 83	409 72	45 52	3 03	59	80	1 50
Miner.....	229	165	9	130	427 25	22 69	404 56	44 95	3 11	57	80	1 48
Miner.....	229	169	9	132	401 65	21 96	379 69	42 19	2 88	58	80	1 40
Miner.....	227	159	9	125	396 10	21 36	374 74	41 64	3 00	55	79	1 37
Miner.....	228	157	9	132	393 80	21 84	371 96	41 33	2 82	58	84	1 36
Miner.....	229	165	9	130	392 85	21 46	371 99	41 27	2 86	57	80	1 36
Miner.....	228	166	9	129	386 85	20 70	366 15	40 67	2 84	57	78	1 34
Miner.....	229	159	9	123	385 20	21 08	364 12	40 46	2 96	54	77	1 33
Miner.....	228	166	9	131	383 90	21 21	362 69	40 30	2 77	57	80	1 32
Miner.....	229	165	9	124	363 70	19 73	343 97	38 22	2 77	54	75	1 26

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	229	165	9	115	\$343 60	\$18 24	\$325 36	\$36 15	\$2 83	50	70	\$1 20
Miner .....	228	157	9	112	340 80	18 99	321 81	35 76	2 88	49	71	1 18
Miner .....	227	155	9	111	315 35	18 11	297 24	33 03	2 68	49	72	1 09
Miner .....	206	150	8	123	593 06	27 77	565 29	70 66	4 60	60	82	2 30
Miner .....	204	136	8	96	470 65	15 88	454 77	56 85	4 74	47	70	1 87
Miner .....	206	150	8	116	471 80	19 51	452 29	56 54	3 90	56	77	1 84
Miner .....	202	146	8	111	441 98	22 46	419 52	52 44	3 78	55	76	1 73
Miner .....	202	146	8	114	438 05	19 75	418 30	52 30	3 67	56	78	1 73
Miner .....	202	146	8	122	429 31	22 37	406 94	50 87	3 34	60	86	1 68
Miner .....	202	146	8	126	414 85	21 97	392 88	49 11	3 12	64	86	1 62
Miner .....	202	146	8	105	405 97	21 25	384 72	48 09	3 66	64	86	1 62
Miner .....	203	154	8	119	382 95	20 41	362 54	45 32	3 05	59	77	1 49
Miner .....	202	146	8	118	376 35	20 34	356 01	44 50	3 01	58	81	1 47
Miner .....	202	146	8	117	374 95	20 05	354 90	44 36	3 03	58	80	1 47
Miner .....	202	146	8	118	370 35	19 69	350 66	43 83	2 98	58	81	1 45
Miner .....	202	145	8	110	366 70	19 51	347 19	43 40	3 16	54	77	1 43
Miner .....	202	146	8	113	366 15	19 88	346 27	43 28	3 07	56	77	1 43
Miner .....	203	134	8	115	366 20	19 98	346 22	43 28	3 01	57	86	1 43
Miner .....	202	146	8	115	364 75	19 61	345 14	43 14	3 00	57	80	1 43
Miner .....	203	134	8	112	356 40	18 88	337 52	42 19	3 01	55	84	1 40
Miner .....	203	134	8	105	351 14	20 21	330 93	41 37	3 15	52	78	1 36
Miner .....	206	150	8	116	345 70	18 85	326 85	40 86	2 82	56	77	1 33
Miner .....	206	150	8	109	350 00	17 59	302 41	37 80	2 77	53	73	1 23
Miner .....	203	134	8	102	301 45	16 70	284 75	35 59	2 79	50	76	1 17
Miner .....	206	150	8	120	236 02	14 46	221 56	27 70	1 85	58	80	90
Miner .....	178	125	7	89	394 85	15 35	379 50	54 21	4 26	50	71	1 79
Miner .....	177	123	7	102	391 75	18 08	373 67	53 88	3 66	58	83	1 76
Miner .....	177	123	7	102	391 75	18 08	373 67	53 88	3 66	58	83	1 76
Miner .....	177	123	7	105	372 61	19 04	353 57	50 51	3 37	59	85	1 67
Miner .....	176	107	7	89	355 70	18 54	337 16	48 17	3 79	51	83	1 59
Miner .....	177	123	7	110	350 20	18 72	331 48	47 35	3 01	62	90	1 57
Miner .....	177	123	7	110	349 05	18 72	330 33	47 19	3 00	62	90	1 56
Miner .....	176	107	7	94	339 48	18 07	321 41	45 95	3 42	53	88	1 52
Miner .....	177	123	7	106	335 35	18 13	317 22	45 32	2 90	60	86	1 50
Miner .....	180	132	7	104	330 60	17 66	312 94	44 70	3 01	58	79	1 46
Miner .....	177	1 3	7	106	327 30	17 83	309 47	44 21	2 92	60	86	1 46
Miner .....	177	123	7	105	318 95	17 48	301 46	43 07	2 87	60	85	1 42
Miner .....	176	128	7	107	316 50	17 96	298 54	42 93	2 80	61	84	1 41
Miner .....	180	132	7	94	313 60	16 27	297 33	42 48	3 16	52	71	1 38
Miner .....	177	123	7	106	313 80	17 57	296 23	42 32	2 80	60	86	1 40
Miner .....	178	125	7	93	307 55	16 48	291 07	41 58	3 13	52	74	1 37
Miner .....	177	123	7	100	305 15	16 87	288 28	41 18	2 88	56	81	1 36
Miner .....	177	118	7	96	303 15	16 54	280 61	40 94	2 99	54	81	1 34
Miner .....	177	123	7	98	301 85	16 96	284 89	40 70	2 91	55	80	1 34
Miner .....	177	118	7	96	300 30	16 46	283 84	40 55	2 96	54	81	1 33
Miner .....	177	123	7	94	297 50	16 89	280 61	40 09	2 99	53	76	1 33
Miner .....	177	123	7	96	292 65	16 40	276 25	39 46	2 88	54	78	1 30
Miner .....	177	123	7	98	288 25	16 26	271 99	38 86	2 77	55	80	1 28
Miner .....	177	123	7	98	288 25	16 26	271 99	38 86	2 77	55	80	1 28
Miner .....	177	123	7	94	286 80	16 03	270 77	38 08	2 88	53	77	1 28

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	177	123	7	94	\$286 80	\$16 03	\$270 77	\$38 68	\$232 09	\$88 88	53	77	\$1 28
Miner .....	177	123	7	91	286 35	15 91	270 44	38 63	231 53	87 97	51	74	1 28
Miner .....	177	123	7	90	272 35	15 44	256 91	36 70	220 21	85 25	51	73	1 21
Miner .....	177	123	7	92	267 85	15 24	252 61	36 09	216 52	85 75	52	75	1 19
Miner .....	177	123	7	92	267 85	15 24	252 61	36 09	216 52	85 75	52	75	1 19
Miner .....	177	118	7	91	259 00	15 04	243 96	34 85	209 11	82 59	53	80	1 15
Miner .....	177	123	7	91	257 65	15 22	242 43	34 63	207 80	82 97	51	74	1 14
Miner .....	176	107	7	85	250 35	14 53	235 82	33 70	202 12	82 79	48	79	1 11
Miner .....	150	96	6	82	395 68	18 88	376 80	62 80	4 72	55	85	2 08	
Miner .....	155	115	6	84	335 45	14 90	320 55	53 42	3 82	54	73	1 74	
Miner .....	150	96	6	79	329 41	16 37	313 04	52 17	3 46	53	82	1 73	
Miner .....	150	96	6	87	320 10	16 79	303 31	50 55	3 49	58	90	1 68	
Miner .....	150	96	6	71	292 00	12 89	279 11	46 52	3 93	47	74	1 54	
Miner .....	154	114	6	93	293 30	15 66	277 64	46 27	3 98	60	81	1 51	
Miner .....	150	96	6	88	274 80	15 27	259 53	43 25	3 95	59	92	1 43	
Miner .....	150	96	6	87	270 95	15 10	255 85	42 64	2 94	58	91	1 41	
Miner .....	154	114	6	85	266 95	13 59	253 36	42 33	3 02	57	75	1 38	
Miner .....	150	96	6	85	266 00	14 54	251 46	41 91	3 06	57	89	1 39	
Miner .....	150	96	6	85	263 40	14 45	248 95	41 49	3 11	57	89	1 38	
Miner .....	150	96	6	80	261 50	13 09	248 41	41 40	3 11	53	83	1 37	
Miner .....	150	96	6	85	262 20	14 45	247 75	41 29	2 91	57	89	1 37	
Miner .....	150	96	6	83	261 55	13 99	247 56	41 26	3 18	55	86	1 37	
Miner .....	150	96	6	76	254 89	13 48	241 41	40 24	3 18	50	80	1 33	
Miner .....	150	96	6	77	244 65	13 66	230 99	38 48	3 00	50	80	1 28	
Miner .....	150	96	6	80	237 15	13 42	223 73	37 29	3 00	53	83	1 24	
Miner .....	150	96	6	81	234 00	13 32	220 68	36 98	2 72	54	84	1 22	
Miner .....	150	96	6	82	231 90	12 84	219 06	36 51	2 67	55	86	1 21	
Miner .....	150	96	6	78	227 95	13 05	214 90	35 82	2 75	52	81	1 19	
Miner .....	150	96	6	76	226 65	12 95	213 70	35 62	2 81	50	80	1 18	
Miner .....	150	96	6	76	222 25	12 80	209 45	34 91	2 76	50	80	1 16	
Miner .....	150	96	6	73	204 40	12 08	192 32	32 05	2 63	49	76	1 06	
Miner .....	150	96	6	73	204 40	12 08	192 32	32 05	2 63	49	76	1 06	
Miner .....	154	100	6	68	201 75	11 55	190 20	31 70	2 58	44	68	1 03	
Miner .....	151	85	6	66	181 70	10 57	171 13	28 52	2 60	44	80	1 94	
Miner .....	125	78	5	61	276 30	13 41	262 89	52 58	3 87	49	80	1 74	
Miner .....	125	78	5	68	226 95	12 32	214 63	42 93	3 16	54	87	1 42	
Miner .....	125	78	5	63	225 65	11 23	214 42	42 88	3 40	50	81	1 42	
Miner .....	130	97	5	72	207 60	11 40	196 20	39 24	2 73	55	74	1 27	
Miner .....	125	78	5	68	205 90	11 51	194 39	38 88	2 86	54	87	1 29	
Miner .....	125	78	5	66	199 80	11 32	188 48	37 70	2 86	53	85	1 25	
Miner .....	130	97	5	63	181 65	10 35	174 30	34 86	2 77	49	65	1 13	
Miner .....	124	84	5	64	181 70	10 56	171 14	34 23	2 67	52	76	1 13	
Miner .....	130	97	5	59	179 65	9 84	169 81	33 96	2 88	45	61	1 10	
Miner .....	129	95	5	63	171 95	9 62	162 33	32 47	2 86	49	66	1 05	
Miner .....	125	78	5	56	169 90	9 48	160 42	32 08	2 58	45	72	1 06	
Miner .....	124	95	4	65	284 80	10 75	274 05	68 51	4 22	52	68	2 25	
Miner .....	100	61	4	53	211 18	10 83	200 35	50 00	3 78	53	87	1 70	
Miner .....	99	72	4	60	209 00	10 29	198 71	49 68	3 31	60	83	1 60	
Miner .....	104	86	4	61	197 35	10 29	187 06	46 76	3 07	59	71	1 51	
Miner .....	103	84	4	62	194 85	10 41	184 44	46 11	2 97	60	74	1 50	

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll. <sup>1</sup>	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days				Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time			
Miner .....	103	84	4	63	\$188 20	\$10 25	\$177 95	\$44 49	\$2 82	61	75	\$1 45						
Miner .....	103	84	4	65	187 70	10 35	177 35	44 34	2 83	63	77	1 44						
Miner .....	103	84	4	61	182 40	9 61	172 79	43 29	2 83	60	72	1 40						
Miner .....	100	61	4	51	170 55	9 29	161 26	40 31	2 16	51	84	1 34						
Miner .....	100	61	4	56	169 90	9 48	160 42	40 10	2 86	56	92	1 34						
Miner .....	99	72	4	58	167 95	9 46	158 49	39 62	2 73	59	81	1 32						
Miner .....	102	52	4	41	162 50	7 42	155 08	38 77	2 38	40	80	1 26						
Miner .....	100	61	4	50	163 20	9 12	154 08	38 52	2 08	50	82	1 28						
Miner .....	100	61	4	51	159 65	8 93	150 72	37 68	2 06	51	84	1 26						
Miner .....	100	61	4	50	159 50	9 32	150 18	37 55	2 00	50	82	1 25						
Miner .....	100	61	4	51	157 95	8 93	149 02	37 25	2 92	51	84	1 24						
Miner .....	99	62	4	48	155 20	8 72	146 48	36 62	2 05	50	77	1 21						
Miner .....	102	75	4	55	148 65	8 31	140 34	35 08	2 55	54	73	1 14						
Miner .....	105	84	4	55	148 77	8 62	140 15	35 04	2 55	52	65	1 14						
Miner .....	105	81	4	55	148 77	8 62	140 15	35 04	2 55	52	65	1 14						
Miner .....	103	84	4	52	147 40	8 03	139 34	34 84	2 67	50	62	1 13						
Miner .....	101	70	4	43	131 65	7 81	123 84	30 96	2 88	43	61	1 13						
Miner .....	99	62	4	43	123 70	6 92	116 78	29 19	2 72	43	70	97						
Miner .....	100	54	4	43	119 10	6 83	112 27	28 07	2 61	43	80	94						
Miner .....	103	69	4	44	107 65	6 18	101 47	25 37	2 31	43	64	82						
Miner .....	103	79	4	42	106 55	6 58	99 97	24 99	2 38	41	60	81						
Miner .....	79	73	3	51	165 00	8 58	156 42	52 14	3 07	65	70	1 70						
Miner .....	77	66	3	52	163 60	9 19	154 41	51 47	2 97	68	80	1 68						
Miner .....	77	59	3	44	160 00	8 0	151 99	50 66	3 45	57	75	1 65						
Miner .....	77	59	3	44	156 80	8 01	148 79	49 60	3 38	57	75	1 62						
Miner .....	76	57	3	45	145 60	7 74	137 86	45 95	3 00	60	80	1 50						
Miner .....	78	51	3	37	143 90	7 64	136 26	45 42	3 68	47	73	1 48						
Miner .....	76	57	3	48	135 35	7 53	127 82	42 61	2 66	63	84	1 39						
Miner .....	77	66	3	40	123 10	6 42	116 68	38 89	2 92	52	60	1 27						
Miner .....	74	43	3	31	120 96	6 65	114 31	38 10	3 69	42	72	1 28						
Miner .....	74	43	3	36	118 25	6 60	111 65	37 22	3 10	49	84	1 25						
Miner .....	78	47	3	29	115 32	5 96	109 36	36 45	3 77	37	62	1 18						
Miner .....	74	43	3	38	115 70	6 61	109 09	36 36	2 87	53	90	1 23						
Miner .....	74	43	3	34	114 05	6 38	107 67	35 89	3 17	46	80	1 21						
Miner .....	74	43	3	35	113 20	5 90	107 30	35 77	3 07	47	80	1 21						
Miner .....	74	43	3	35	112 50	6 40	106 10	35 37	3 03	47	80	1 19						
Miner .....	77	66	3	39	110 80	5 86	104 94	34 98	2 69	51	60	1 14						
Miner .....	76	46	3	27	104 65	4 53	100 12	33 37	3 70	36	60	1 09						
Miner .....	74	43	3	32	104 15	6 04	98 11	32 70	3 07	43	72	1 10						
Miner .....	74	43	3	32	104 15	6 04	98 11	32 70	3 07	43	72	1 10						
Miner .....	78	47	3	29	99 90	5 01	94 89	31 63	3 27	37	62	1 02						
Miner .....	74	43	3	31	99 55	5 84	93 71	31 24	3 02	42	72	1 05						
Miner .....	74	43	3	30	97 65	5 76	91 89	30 63	3 06	41	70	1 03						
Miner .....	78	47	3	26	92 95	4 65	88 30	29 43	3 40	33	55	95						
Miner .....	74	43	3	31	92 95	5 10	87 85	29 28	2 83	42	72	99						
Miner .....	78	47	3	23	79 60	4 37	75 23	25 08	3 27	30	50	81						
Miner .....	74	43	3	26	76 95	4 40	72 55	24 18	2 79	35	65	81						
Miner .....	74	43	3	25	76 20	3 70	72 50	24 17	2 90	34	58	81						
Miner .....	78	47	3	28	71 50	4 48	67 02	22 34	2 40	36	60	72						
Miner .....	78	47	3	25	67 65	3 96	63 69	21 23	2 55	32	53	68						

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithings.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.	Time	Am't.	Time	Time	Time	Time	Time	Time	Time	Am't.	
Miner .....	51	28	12	25	\$143 80	\$4 92	\$138 88	\$69 44	\$5 56	50	90	\$2 28												
Miner .....	51	28	12	25	143 80	4 92	138 88	69 44	5 56	50	90	2 28												
Miner .....	51	28	12	25	103 85	5 42	98 43	49 21	3 78	51	90	1 61												
Miner .....	52	49	13	35	99 45	5 42	94 03	47 01	2 70	67	71	1 54												
Miner .....	51	28	12	25	90 80	4 86	85 94	42 97	3 44	50	90	1 41												
Miner .....	51	28	12	25	81 45	4 56	76 89	38 44	3 08	50	90	1 42												
Miner .....	51	28	12	25	78 95	4 47	74 48	37 24	2 98	50	90	1 22												
Miner .....	53	39	13	23	77 40	3 95	73 45	36 72	3 20	62	85	1 20												
Miner .....	51	28	12	23	76 65	4 34	72 31	36 15	3 14	45	82	1 19												
Miner .....	51	28	12	24	74 95	4 21	70 74	35 37	2 95	47	86	1 16												
Miner .....	51	28	12	24	74 95	4 21	70 74	35 37	2 95	47	86	1 16												
Miner .....	51	28	12	23	71 55	4 10	67 45	33 72	2 93	45	82	1 11												
Miner .....	53	34	12	24	68 05	3 24	64 81	32 40	2 70	45	71	1 05												
Miner .....	53	34	12	18	68 45	3 68	64 77	32 33	3 60	34	53	1 04												
Miner .....	53	34	12	20	66 60	3 06	63 54	31 77	3 18	40	71	1 04												
Miner .....	51	28	12	20	62 95	3 68	59 27	29 63	2 98	40	71	97												
Miner .....	51	28	12	19	60 60	3 57	57 03	28 51	3 00	37	70	93												
Miner .....	51	24	12	17	59 80	3 28	56 52	28 26	3 33	33	71	91												
Miner .....	49	26	12	17	57 50	2 21	55 29	27 64	3 25	35	65	94												
Miner .....	51	28	12	19	57 75	3 54	54 21	27 10	2 91	37	68	90												
Miner .....	51	28	12	17	55 60	2 91	52 69	26 34	3 10	33	61	86												
Miner .....	52	49	12	19	54 80	2 92	51 88	26 94	2 73	37	40	85												
Miner .....	51	28	12	16	47 45	2 59	44 86	22 43	2 80	31	57	74												
Miner .....	52	27	12	17	45 95	2 55	43 40	21 70	2 55	33	63	71												
Miner .....	51	24	12	17	41 75	2 65	39 10	19 55	2 30	33	71	63												
Miner .....	52	36	12	16	40 25	2 26	37 99	19 00	2 31	31	44	61												
Miner .....	51	24	12	15	37 85	2 46	35 39	17 69	2 36	30	63	57												
Miner .....	26	16	1	14	41 90	2 34	39 56	39 56	2 83	54	88	1 32												
Miner .....	26	16	1	14	41 90	2 34	39 56	39 56	2 83	54	88	1 32												
Miner .....	26	16	1	13	41 15	2 23	38 92	38 92	2 99	50	81	1 30												
Miner .....	26	11	1	10	39 95	1 60	38 35	38 35	3 83	40	91	1 24												
Miner .....	26	16	1	12	39 30	2 15	37 15	37 15	3 01	46	75	1 21												
Miner .....	26	16	1	11	34 40	2 01	32 39	32 39	2 94	43	70	1 04												
Miner .....	26	11	1	8	31 70	1 86	29 84	29 84	3 73	31	73	96												
Miner .....	26	11	1	10	27 05	1 42	25 63	25 63	2 56	40	91	83												
Miner .....	25	13	1	10	26 50	1 44	25 06	25 06	2 54	40	77	81												
Miner .....	26	11	1	9	23 50	1 64	23 86	23 86	2 65	34	82	77												
Miner .....	26	11	1	9	23 50	1 64	23 86	23 86	2 65	34	82	77												
Miner .....	26	11	1	9	23 50	1 64	23 86	23 86	2 65	34	82	77												
Miner .....	26	11	1	10	23 85	1 60	22 25	22 25	2 22	40	91	72												
Miner .....	26	11	1	9	23 50	1 55	21 95	21 95	3 44	35	82	71												
Miner .....	26	11	1	7	23 20	1 45	21 75	21 75	3 11	27	64	70												
Miner .....	26	16	1	8	23 20	1 47	21 73	21 73	2 72	32	50	72												
Miner .....	26	11	1	11	22 60	1 56	21 04	21 04	1 91	42	100	68												
Miner .....	26	11	1	11	22 20	1 56	20 64	20 64	1 88	42	100	67												
Miner .....	26	11	1	6	20 85	1 34	19 51	19 51	3 25	23	55	63												
Miner .....	26	11	1	9	20 80	1 46	19 31	19 34	2 15	34	82	62												
Miner .....	26	11	1	9	20 86	1 46	19 34	19 34	3 15	34	82	62												
Miner .....	26	11	1	10	20 40	1 48	18 92	18 92	1 89	38	91	61												
Miner .....	26	11	1	9	20 10	1 43	18 67	18 67	2 07	34	82	60												



Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	26	11	1	9	\$20 00	\$1 43	\$18 57	\$18 57	\$2 06		34	82	\$0 60
Miner .....	26	11	1	9	19 30	1 40	17 90	17 90	1 99		34	82	58
Miner .....	26	11	1	7	18 55	1 36	17 19	17 19	2 46		27	64	55
Miner .....	26	16	1	7	18 35	1 33	17 02	17 02	2 43		27	44	57
Miner .....	26	11	1	6	16 70	1 06	15 64	15 64	2 61		23	55	50
Miner .....	26	11	1	6	15 40	1 19	14 21	14 21	2 37		23	50	46
Miner .....	26	11	1	7	14 55	68	13 87	13 87	2 31		27	64	45
Miner .....	26	11	1	6	11 70	57	11 13	11 13	1 85		23	55	36

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days										
Pit-boss .....	52	20¾	2	61	\$90 00	.....	.....	\$180 00	\$90 00	\$2 95	117	\$3 00
Engineer .....	52	20¾	2	61	75 00	.....	.....	150 00	75 00	2 46	117	2 46
Engineer .....	52	20¾	2	61	.....	.....	\$2 00	122 00	61 00	2 00	117	2 00
Engineer .....	52	20¾	2	46	55 00	.....	.....	82 50	41 25	1 80	90	1 35
Weighman.....	52	20¾	2	61	70 00	.....	.....	140 00	70 00	2 30	117	2 30
Carpenter .....	75	42¾	3	59	.....	2 25	\$1 75	112 25	37 42	1 91	80	1 37
Carpenter .....	52	20¾	2	54	.....	2 25	.....	121 50	60 75	2 25	104	2 00
Carpenter .....	52	20¾	2	47	.....	2 25	.....	105 75	52 87	2 25	90	1 76
Carpenter .....	52	20¾	2	46¾	.....	2 25	.....	105 20	52 60	2 25	90	1 72
Carpenter .....	52	20¾	2	20	.....	50 00	.....	50 00	25 00	50	40	82
Carpenter .....	26	10½	1	24	.....	54 00	.....	54 00	54 00	2 25	92	1 80
Carpenter .....	26	10½	1	23	.....	51 75	.....	51 75	51 75	2 25	88	1 73
Carpenter .....	26	10½	1	22½	.....	50 65	.....	50 65	50 65	2 25	88	1 73
Carpenter .....	26	10½	1	22	.....	49 50	.....	49 50	49 50	2 25	85	1 60
Carpenter .....	26	10½	1	18	.....	2 25	.....	40 50	40 50	2 25	70	1 35
Blacksmith.....	52	20¾	2	49¾	.....	2 25	.....	111 95	55 97	2 25	96	1 83
Blacksmith.....	52	20¾	2	42	.....	2 50	.....	105 00	52 50	2 50	81	1 72
Bl'ksmith h'p'r.	52	20¾	2	49¾	.....	1 65	.....	81 70	40 85	1 65	96	1 34
Bl'ksmith h'p'r.	52	20¾	2	50¾	.....	1 50	.....	75 75	38 87	1 50	98	1 21
Blacksmith.....	26	10½	1	24	.....	2 25	.....	51 70	51 70	2 25	92	1 67
Bl'ksmith h'p'r.	26	10½	1	26¾	.....	1 25	.....	32 80	32 80	1 25	100	1 06
Bl'ksmith h'p'r.	26	10½	1	9	.....	90	.....	8 10	8 10	90	35	26



Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Fireman .....	78	38½	3	65½	.....	\$1 65	\$1 50	\$107 10	\$35 70	\$1 64	85	\$1 16										
Fireman .....	52	20¾	12	62	.....	1 65	.....	102 30	51 15	1 68	117	1 68										
Fireman .....	52	20¾	12	61	.....	1 65	.....	100 65	50 32	1 65	117	1 65										
Fireman .....	52	20¾	12	61	.....	1 65	.....	100 65	50 32	1 65	117	1 65										
Fireman .....	52	20¾	12	61	.....	1 65	.....	100 65	50 32	1 65	117	1 65										
Fireman .....	61	20¾	12	59½	.....	1 65	.....	98 20	49 10	1 65	98	1 61										
Fireman .....	52	20¾	12	59	.....	1 65	.....	97 35	48 67	1 65	113	1 60										
Fireman .....	52	20¾	12	58	.....	1 65	.....	95 70	47 85	1 65	112	1 57										
Fireman .....	52	20¾	12	56¾	.....	1 65	.....	93 65	46 82	1 65	110	1 54										
Watchman .....	52	20¾	2	61	.....	1 50	.....	91 51	45 75	1 50	117	1 50										
Mason, stone .....	26	10½	1	8½	.....	3 50	.....	29 75	29 75	3 50	35	99										
Mason .....	26	17¾	1	8	.....	3 00	.....	24 00	24 00	3 00	31	77										
Teamster .....	101	53	4	92½	.....	2 50	.....	231 25	57 81	2 50	92	1 93										
Teamster .....	49	32¾	2	20	.....	2 50	.....	50 00	25 00	2 50	41	85										
Roadman .....	306	203¼	12	356½	.....	2 40	2 30	823 05	68 59	2 30	116	2 26										
Roadman .....	306	203¼	12	356	.....	2 40	2 30	821 90	68 50	2 31	116	2 25										
Roadman .....	306	203¼	12	331	.....	2 40	2 30	763 45	63 62	2 31	108	2 09										
Roadman .....	306	203¼	12	319¾	.....	2 40	2 30	737 68	61 47	2 31	105	2 02										
Roadman .....	306	203¼	12	316¾	.....	2 40	2 30	731 36	60 95	2 31	104	2 00										
Roadman .....	306	203¼	12	302½	.....	2 40	2 30	698 75	58 23	2 31	99	1 91										
Roadman .....	306	203¼	12	291½	.....	2 40	2 30	678 90	56 58	2 36	95	1 86										
Roadman .....	306	203¼	12	281¾	.....	2 40	2 30	659 55	54 21	2 31	92	1 78										
Roadman .....	306	203¼	12	245½	.....	2 00	.....	591 00	49 25	2 00	97	1 62										
Roadman .....	306	203¼	12	258	.....	2 00	.....	516 00	43 00	2 00	84	1 41										
Roadman .....	280	92¾	11	264¾	.....	2 40	2 30	610 35	50 86	2 31	94	1 82										
Roadman .....	78	45¾	3	52½	.....	2 15	.....	112 85	37 62	2 15	68	1 21										
Roadman .....	73	52¾	3	48½	.....	2 30	.....	111 55	37 18	2 30	67	1 25										
Roadman .....	77	71¾	3	36½	.....	2 30	.....	83 95	27 98	2 30	50	92										
Roadman .....	52	49¾	2	17½	.....	2 30	.....	40 25	20 12	2 30	35	66										
Roadman .....	25	22¾	1	13½	.....	2 30	.....	31 05	31 05	2 30	56	1 05										
Roadman .....	27	23	1	13	.....	2 30	.....	29 90	29 90	2 30	48	96										
Roadman .....	25	12½	1	8	.....	2 30	.....	18 40	18 40	2 30	32	59										
Roadman .....	27	23	1	7	.....	2 30	.....	16 10	16 10	2 30	26	52										
Driver .....	306	203¼	12	315¾	.....	2 40	2 30	728 05	60 67	2 31	103	2 00										
Driver .....	306	203¼	12	302¾	.....	2 25	.....	679 92	56 66	2 25	98	1 86										
Driver .....	306	203¼	12	291	.....	2 30	.....	557 15	46 43	2 30	80	1 53										
Driver .....	306	203¼	12	287	.....	1 75	.....	502 20	41 85	1 75	94	1 38										
Driver .....	306	203¼	12	221¾	.....	2 25	.....	497 75	41 48	2 25	72	1 36										
Driver .....	280	192¾	11	329½	.....	2 30	.....	757 80	68 89	2 30	118	2 26										
Driver .....	280	192¾	11	215	.....	2 25	.....	483 61	43 97	2 25	77	1 44										
Driver .....	280	192¾	11	214½	.....	2 25	.....	482 07	43 82	2 25	77	1 44										
Driver .....	280	192¾	11	208½	.....	2 25	.....	479 06	43 55	2 30	75	1 43										
Driver .....	280	192¾	11	207¾	.....	2 25	.....	466 26	42 39	2 25	74	1 40										
Driver .....	280	192¾	11	214½	.....	2 25	2 00	465 28	42 30	2 17	77	1 38										
Driver .....	280	192¾	11	208¾	.....	2 25	2 15	460 63	41 88	2 21	74	1 38										
Driver .....	280	192¾	11	207¾	.....	2 25	2 15	458 81	41 71	2 21	74	1 37										
Driver .....	279	180¾	11	175½	.....	2 25	.....	394 76	35 89	2 25	63	1 18										
Driver .....	280	192¾	11	157¾	.....	2 25	2 15	355 71	32 34	2 25	56	1 06										

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employed appears on the pay-roll.		Actual working time of employee.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Amt	Time	Am't.										
Driver .....	280	192¾	11	189½			\$1 25		\$236 77	\$21 53	\$1 25	67	\$0 17									
Driver .....	280	192¾	11	144			1 25	\$1 15	179 31	16 30	1 24	51	95									
Driver .....	255	176½	10	203½			2 25		457 72	45 77	2 25	80	1 01									
Driver .....	255	180¾	10	195			1 25	1 15	240 02	24 00	1 23	76	79									
Driver .....	228	157¼	9	176½			2 25	1 75	383 40	42 60	2 17	78	1 44									
Driver .....	229	166	9	166½			2 25		374 60	41 62	2 25	73	1 37									
Driver .....	229	166	9	166			2 25	1 25	229 92	25 55	1 38	72	84									
Driver .....	150	97¾	6	101¾			2 25		228 90	38 15	2 25	68	1 26									
Driver .....	153	110¾	6	61¾			1 25	1 15	76 55	12 76	1 24	41	41									
Driver .....	139	95½	5	73½			2 30	2 15	161 35	32 27	2 20	57	1 05									
Driver .....	130	95½	5	80			1 35		107 95	21 59	1 35	62	70									
Driver .....	99	60	4	48¾			2 25		169 06	27 26	2 25	50	90									
Driver .....	103	58½	4	57¼			1 35		77 25	19 31	1 35	54	63									
Driver .....	103	75¾	4	51¾			1 35		68 40	17 10	1 35	50	57									
Driver .....	77	65¾	3	59¾			2 25		133 39	44 37	2 25	77	1 45									
Driver .....	74	41¼	3	50			2 00		100 00	33 33	2 00	68	1 12									
Driver .....	74	41¼	3	43¼			2 00		86 50	28 83	2 00	58	97									
Driver .....	74	48½	3	38¾			2 30		77 05	25 68	2 30	46	86									
Driver .....	52	20¾	2	37½			2 25		84 35	42 17	2 25	73	1 38									
Driver .....	48	36½	2	35¼			2 30	2 25	79 75	39 87	2 26	73	1 38									
Driver .....	26	10¾	1	15¼			2 00		30 50	30 50	2 00	58	98									
Driver .....	27	27	1	8			2 25		18 00	18 00	2 25	30	58									
Driver .....	26	10¾	1	11			1 35		14 87	14 87	1 35	42	48									
Driver .....	26	10¾	1	12¾			1 15		14 65	14 65	1 15	50	47									
Driver .....	26	15¼	1	7½			2 00		14 50	14 50	2 00	31	48									
Driver .....	26	10¾	1	10¼			1 35		13 85	13 85	1 35	38	45									
Driver .....	25	12¾	1	11½			1 15		13 20	13 20	1 15	48	43									
Driver .....	26	10¾	1	5½			2 25		12 35	12 35	2 25	23	40									
Driver .....	26	10¾	1	6½			1 50		9 75	9 75	1 50	27	31									
Mulc-tender....	306	203¼	12	365	\$55 00		2 00		660 00	55 00	1 81	119	1 81									
Mulc-boss .....	26	10¾	1	17	70 00				41 10	41 10	2 42	65	1 33									
Water bailer....	254	182¾	10	299¾			\$1 75		\$523 70	\$52 37	\$1 75	118	\$1 72									
Water bailer....	229	170	9	254			1 75		444 05	49 34	1 75	111	1 63									
Water bailer....	177	134¼	7	197			1 75		344 50	49 21	1 75	111	1 63									
Water bailer....	177	96	7	172			1 75	\$1 50	292 55	41 80	1 70	97	1 38									
Water bailer....	125	75¼	5	136½			1 75		238 85	47 77	1 75	110	1 58									
Water bailer....	52	20¾	2	59			1 75		103 25	51 62	1 75	113	1 69									
Water bailer....	26	10¾	1	29			1 75		50 75	50 75	1 75	112	1 64									
Water bailer....	27	23	1	14			1 75		24 50	24 50	1 75	52	79									
Cager .....	280	192½	11	219¼			2 25		493 75	44 89	2 25	79	1 47									
Cager .....	280	192¼	11	235¾			2 00		471 50	42 86	2 00	84	1 41									
Cager .....	281	190¾	11	233			2 00	1 75	435 10	39 55	1 87	81	1 30									
Cager .....	280	192¼	11	216¾			2 00	1 75	417 60	37 96	1 93	77	1 25									
Cager .....	280	192¼	11	223¾			1 25		279 60	25 42	1 25	80	83									
Cager .....	177	117	7	78			2 00	1 75	138 55	18 36	1 78	44	91									
Cager .....	25	12½	1	14			1 25		17 50	17 50	1 25	56	56									
Laborer .....	154	79¾	6	104¼			1 60	1 50	159 75	26 62	1 53	68	83									
Laborer .....	154	104¼	6	74			2 30	1 50	143 80	23 97	1 94	48	79									
Laborer .....	126	97½	5	96¾			2 30		222 55	44 51	2 30	77	1 58									
Laborer .....	103	72	4	78			1 50		117 00	29 25	1 50	76	96									
Laborer .....	100	59	4	57½			1 35		77 60	19 40	1 35	58	65									

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.		Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days		High-est.	High-est.	Low-est.				Am't.	Am't.	Am't	Time	Am't.
Laborer .....	78	38½	3	66			\$1 65	\$1 50				\$107 80	\$35 93	\$1 63	85	\$1 17
Laborer .....	74	43½	3	58			1 50					87 00	29 00	1 50	78	1 97
Laborer .....	52	20¾	2	57			2 00					114 00	57 00	2 00	110	1 87
Laborer .....	61	20¾	2	60		\$55 00						110 00	55 00	1 83	100	1 80
Laborer .....	52	49	2	41¼			2 30					94 85	47 42	2 30	80	1 56
Laborer .....	52	20¾	2	53			1 40					74 20	37 10	1 40	102	1 22
Laborer .....	52	20¾	2	53			1 60					58 80	29 40	1 60	71	96
Laborer .....	49	32¼	2	33¾			1 75					58 60	29 30	1 75	70	99
Laborer .....	51	26¾	2	29¾			2 00					58 50	29 25	2 00	57	96
Laborer .....	51	39¾	2	25¾			2 30					58 07	29 03	2 30	50	95
Laborer .....	52	20¾	2	35¾			1 60					57 20	28 60	1 60	70	94
Laborer .....	51	27¾	2	29			2 00	1 25				50 10	25 05	1 73	57	82
Laborer .....	48	26	2	21¾			2 00					43 50	21 75	2 00	46	74
Laborer .....	51	26¾	2	20¾			2 00					40 50	20 25	2 00	40	66
Laborer .....	49	52¼	2	20			1 50					30 00	15 00	1 50	41	51
Laborer .....	25	12½	1	32			1 75					56 00	56 00	1 75	128	1 81
Laborer .....	26	10½	1	27			1 60					43 20	43 20	1 60	104	1 44
Laborer .....	26	17¾	1	20			2 00					40 00	40 00	2 00	77	1 30
Laborer .....	27	23	1	15¾			2 30					36 20	36 20	2 30	60	1 17
Laborer .....	26	10¾	1	26			1 35					35 10	35 10	1 35	100	1 13
Laborer .....	26	15¾	1	21½			1 50					32 25	32 25	1 50	81	1 07
Laborer .....	26	15¾	1	19			1 50					28 50	28 50	1 50	70	95
Laborer .....	26	15¾	1	13			1 25					16 25	16 25	1 25	50	54
Laborer .....	26	10¾	1	10¾			1 50					16 10	16 10	1 50	42	52
Laborer .....	26	17¾	1	10			1 50					15 00	15 00	1 50	38	48
Laborer .....	26	17¾	1	10			1 50					15 00	15 00	1 50	98	48
Trapper .....	306	209¼	12	195½			1 50	90				179 82	14 99	92	64	49
Trapper .....	280	192¾	11	185			1 00	90				187 50	17 05	1 01	66	56
Trapper .....	280	192¾	11	192			90					172 72	15 70	90	69	52
Trapper .....	280	192¾	11	191¾			90					172 52	15 68	90	69	52
Trapper .....	280	192¾	11	190			90					170 97	15 54	90	68	51
Trapper .....	280	192¾	11	183¾			90					164 92	14 99	90	66	49
Trapper .....	280	192¾	10	175¼			90					157 67	14 33	90	62	47
Trapper .....	181	122¼	7	98			1 25	90				103 80	14 83	1 12	51	48
Trapper .....	74	41¼	3	40¾			90					36 70	12 23	90	55	41
Trapper .....	26	15¾	1	12¼			90					11 05	11 05	90	46	37
Trapper .....	26	10¾	1	10¾			90					9 65	9 65	90	38	31
Trapper .....	26	10¾	1	10¾			90					9 20	9 20	90	38	30
Trapper .....	26	10¾	1	10¾			90					9 20	9 20	90	38	30
Oiler .....	255	180¼	10	179¾			1 00	90				178 45	17 84	99	71	59
Oiler .....	52	28	2	29¾			2 00	1 00				49 25	24 62	1 66	58	79
Oiler .....	51	22¾	2	17¾			1 60					28 40	14 20	1 60	35	46
Oiler .....	26	10¾	1	19¾			1 00					19 75	19 75	1 00	77	64
Oiler .....	26	10¾	1	10¾			1 00					10 25	10 25	1 00	32	33
Oiler .....	26	10¾	1	6¾			1 00					6 75	6 75	1 00	27	22
Ropeman .....	77	33¼	3	63¼			2 40	2 00				137 20	45 73	2 17	82	1 50
Ropeman .....	26	10¾	1	9¾			1 00					9 25	9 25	1 00	35	30

Table XI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.											
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Amt	Time	Am't.
Trimmer .....	52	20¾	2	48½		\$1 50		\$72 75	\$36 37	\$1 50	94	\$1 19
Trimmer .....	52	20¾	2	35¼		1 50		52 85	26 42	1 50	67	87
Trimmer .....	52	20¾	2	32¾		1 50		49 10	24 55	1 50	63	80
Trimmer .....	52	20¾	2	32½		1 50		48 75	24 37	1 50	64	80
Trimmer .....	52	20¾	2	31¾		1 50		47 60	23 80	1 50	64	78
Trimmer .....	52	20¾	2	30½		1 50		45 75	22 87	1 50	60	75
Trimmer .....	52	20¾	2	29		1 50		43 50	21 75	1 50	56	71
Trimmer .....	52	20¾	2	23		1 50		34 50	17 25	1 50	44	57
Trimmer .....	52	20¾	2	21¼		1 50		31 80	15 92	1 50	40	52
Trimmer .....	26	10½	1	23		1 50		34 50	34 50	1 50	88	1 15
Trimmer .....	26	10¼	1	11¾		1 50		17 60	17 60	1 50	46	57
Trimmer .....	26	10¼	1	6½		1 50		9 75	9 75	1 50	27	31
Partingman ....	74	41¼	3	35		2 00		70 00	23 33	2 00	47	79
Partingman ....	51	26¾	2	29¾		2 00		59 50	29 75	2 00	60	98
Partingman ....	27	23	1	33		1 65		54 45	54 45	1 65	122	1 75

## RECAPITULATION—Establishment IV.

## MINERS PAID BY THE TON.

No. OF MEN.	No. of months on the pay-roll.	Gross earnings.	Deductions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
187...	11 Months....	\$98,138 26	\$4,964 43	\$93,173 83	\$498 25	\$45 29	55	\$3 30	\$1 48
43...	10 " " " "	19,962 33	1,040 27	18,942 06	440 51	44 05	54.9	3 15	1 44
18...	9 " " " "	7,396 09	393 86	7,002 23	389 00	43 22	55.9	3 04	1 42
22...	8 " " " "	8,544 78	437 12	8,107 66	368 53	46 07	56.3	3 24	1 51
33...	7 " " " "	10,321 14	555 30	9,765 84	295 94	42 27	55.1	3 03	1 40
26...	6 " " " "	6,764 98	361 77	6,403 21	246 28	41 05	53.3	3 08	1 36
11...	5 " " " "	2,230 05	121 04	2,109 01	191 73	38 33	51.1	3 00	1 34
26...	4 " " " "	4,304 12	231 38	4,072 74	156 64	39 16	53	3 00	1 30
29...	3 " " " "	3,281 98	177 36	3,104 62	107 05	35 68	40.7	3 10	1 18
27...	2 " " " "	1,942 95	99 98	1,842 97	68 25	34 09	41.7	3 21	1 12
31...	1 " " " "	776 40	47 69	728 71	23 52	23 52	36.3	2 56	76
453...	.....	\$163,683 08	\$8,430 20	\$155,252 88	.....	\$43 82	54.15	\$3 21	\$1 46

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.	Net earnings.	AVERAGES.			
		Days.		Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Pit-boss.....	1	2 mos.	\$180 00	\$90 00	100	\$3 60	\$3 00
Engineers.....	3	168	354 50	59 08	100	2 11	1 94
Weighman.....	1	2 mos.	140 00	70 00	100	2 80	2 30
Carpenters.....	10	336%	741 10	45 50	83	2 20	1 58
Blacksmiths.....	7	251	467 00	45 28	98	1 86	1 48
Firemen.....	9	543%	896 25	47 80	100	1 65	1 65
Watchman.....	1	2 mos.	91 50	45 75	100	1 50	1 50
Masons.....	2	16%	53 75	26 87	33	3 25	88
Roadmen.....	19	3,570	8,067 04	44 92	76	2 26	1 48
Drivers.....	44	5,616%	11,402 88	32 44	65	2 03	1 06
Mule-tender.....	1	365	660 00	55 00	100	1 81	1 81
Mule-boss.....	1	17	41 10	41 10	65	2 42	1 33
Water-bailers.....	8	1,160%	2,022 15	45 92	93	1 75	1 51
Cagers.....	7	1,221	2,253 60	32 36	72	1 75	1 10
Laborers.....	31	1,202%	2,097 42	31 17	70	1 74	1 03
Trappers.....	13	1,490%	1,385 72	13 42	56	93	44
Oilers.....	6	263%	292 85	15 57	50	1 11	50
Hopmen.....	2	72%	146 45	27 49	53	2 02	60
Trimmers.....	12	325%	488 45	22 93	60	1 50	75
Partingmen.....	3	97%	183 95	35 51	76	1 88	1 17
	183	17,013%	\$32,246 97				

TABLE XII.—Establishment IV.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Un- der \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
11 M'ths.	.....	.....	3	7	37	71	24	21	15	5	1	2	.....	187
10 "	.....	.....	.....	3	9	18	4	6	.....	3	.....	.....	.....	43
9 "	.....	.....	.....	1	3	8	3	3	.....	.....	.....	.....	.....	18
8 "	.....	.....	1	.....	2	10	3	3	2	.....	.....	1	.....	22
7 "	.....	.....	.....	3	9	12	5	4	.....	.....	.....	.....	.....	33
6 "	.....	.....	1	4	6	9	2	3	.....	1	.....	.....	.....	26
5 "	.....	.....	.....	5	3	2	.....	1	.....	.....	.....	.....	.....	11
4 "	.....	.....	4	2	10	5	3	1	.....	.....	1	.....	.....	26
3 "	.....	4	3	7	8	1	3	3	.....	.....	.....	.....	.....	29
2 "	.....	2	7	4	6	1	2	.....	.....	.....	2	.....	.....	27
1 "	13	9	3	1	5	.....	.....	.....	.....	.....	.....	.....	.....	31
Totals.	*16	15	22	37	98	137	49	45	18	9	4	3	.....	†453

\*Average earnings \$17.35 for an average of 9¼ days' work.

†Average earnings of all men \$43.56 per month.

Number who earned more than the average, 157, or 35 per cent. of the whole.

Number who earned less than the average, 296, or 65 per cent. of the whole.

**TABLE XIII.—Summaries of Results Shown by Monthly Pay-rolls.****ESTABLISHMENT V.—Coal Mine in LaSalle County.**

CONDITIONS:—Depth of shaft, 85 feet; thickness of coal,  $5\frac{1}{2}$  feet; working places wet; system of working, pillar-and-room; mining done chiefly with machines; operatives paid from \$1.75 to \$2.50 a day; hand-miners employed at entry and other work during October, November and December; price of hand-mining 80 cents a ton, with extras for driving entries; screen bars  $\frac{1}{4}$  of an inch apart; operation suspended January 1 for lack of trade.

**MACHINE OPERATIVES, PAID BY THE DAY.**

MONTHS. 1888.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		Whole number of men on the pay-roll during the month.		Whole number of days' work performed during the month.		Whole number of tons of coal mined and delivered.		Net earnings of all the men employed during the month.		Average net earnings per man per month.		Average net earnings per man per day.		Average number of tons mined per man per day.		Average number of days' work performed per man.		Number of men required to produce same tonnage if at work full running time.	
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.											
May .....	26	20	150	2,969½	7,114	\$5,464 10	\$36 42	\$1 84	2.40	19.8	143											
June .....	26	22	149	3,078	7,613	6,099 10	40 93	1 98	2.47	20.7	140											
July .....	25	24	153	3,081½	7,090	5,850 15	38 24	1 90	2.30	20.1	128											
August .....	27	23½	155	3,094¾	6,949	5,915 60	38 16	1 91	2.25	20	109											
September .....	25	17½	142	2,083	5,008	3,981 90	28 04	1 91	2.40	14.7	119											
October .....	27	20	93	1,480½	4,130	2,806 25	30 17	1 89	2.79	15.9	74											
November .....	25	22	87	1,597½	3,840	3,023 30	34 75	1 89	2.40	18.4	73											
December .....	25	21½	89	1,575½	4,202	3,053 90	34 31	1 94	2.73	17.7	73											
The year .....	206	170½	309	18,959½	45,946	\$36,194 30	\$35 55	\$1 91	2.42	18.6	111											
Monthly Avs...	25.8	21.5	127	2,370	5,743	4,524 29	35 55	1 91	45.1	18.6	111											

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	20	56	1,221½	.....	\$2,154 75	\$38 48	\$1 76	.....	21.8	..											
June .....	26	22	53	1,243	.....	2,180 00	41 13	1 75	.....	23.5	..											
July .....	25	24	59	1,358¾	.....	2,364 40	40 07	1 74	.....	23	..											
August .....	27	23½	58	1,347	.....	2,366 75	40 81	1 76	.....	23.2	..											
September .....	25	17½	57	1,054	.....	1,913 75	33 57	1 82	.....	18.5	..											
October .....	27	20	43	1,298½	.....	2,371 25	37 64	1 83	.....	20.6	..											
November .....	25	22	51	1,112	.....	2,028 65	39 78	1 82	.....	21.8	..											
December .....	25	21½	52	1,203	.....	2,174 10	41 81	1 81	.....	23.2	..											
The year .....	206	170½	105	9,838½	.....	\$17,553 65	\$39 10	\$1 78	.....	21.9	..											
Monthly Avs...	25.8	21.5	56	1,230	.....	2,194 21	39 10	1 78	.....	21.9	..											

**HAND-MINERS, PAID BY THE TON.**

October .....	27	20	51	502½	1,272	\$1,175 91	\$23 04	\$2 34	2.53	9.9	25											
November .....	25	22	74	1,315	3,717	3,402 25	45 98	2 58	2.82	17.8	60											
December .....	26	21½	97	1,610	4,671	4,118 71	42 46	2 56	2.90	16.6	73											
The year .....	77	63½	108	3,427½	9,660	\$8,696 87	\$39 18	\$2 53	2.82	15.4	54											
Monthly Avs...	26	21	74	1,142½	3,220	2,898 95	39 18	2 53	43.51	15.4	54											
Totals .....	206	170½	*522	32,225½	55,606	\$62,444 82																
General Avs...	25.8	21.5	174	10,742	18,535	20,814 94	\$36 97	\$1 97	2.48	19.1	.....											

\*In addition to these, 70 transient employés worked 688 days during the year and earned a total of \$1,284.

**TABLE XIV.--Individual Earnings and Working Time.****ESTABLISHMENT V.—Coal Mine in LaSalle County.***Conditions of employment given at the head of preceding table.***MINING-MACHINE OPERATIVES, PAID BY THE DAY.**

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days												
Mach. foreman.	154	129	6	158½				\$2 30		\$364 55	\$60 76	\$2 30	103	\$1 98
Mach. foreman.	77	66	3	90		\$75 00		2 50		225 00	75 00	2 50	117	2 45
Mach. foreman.	26	20	1	25½				2 50		58 60	58 60	2 50	100	1 89
Mach. foreman.	25	17½	1	25				2 30		57 50	57 50	2 30	100	1 92
Cutter .....	206	170½	8	166				2 50		415 60	51 95	2 50	81	1 70
Cutter .....	206	170½	8	164				2 50		407 50	50 94	2 50	80	1 66
Cutter .....	206	170½	8	156¼				2 50		390 60	48 82	2 50	76	1 59
Cutter .....	206	170½	8	153				2 50		381 85	47 73	2 50	74	1 56
Cutter .....	206	170½	8	152½				2 50		381 20	47 65	2 50	74	1 57
Cutter.....	206	170½	8	144½				2 50		361 25	45 16	2 50	70	1 47
Cutter.....	206	170½	8	139½				2 50		348 70	43 59	2 50	68	1 42
Cutter.....	206	170½	8	126¼			\$2 25	311 70		38 96	2 47	61	1 27	
Cutter.....	179	151	7	133				2 50		329 95	47 14	2 50	74	1 54
Cutter.....	129	107	5	103¾				2 50		258 10	51 62	2 50	80	1 69
Cutter.....	129	107	5	95				2 50		237 00	47 40	2 50	74	1 55
Cutter.....	129	107	5	91¾				2 50		229 35	45 87	2 50	71	1 50
Cutter.....	129	107	5	95½				2 25		214 85	42 97	2 25	74	1 40
Cutter.....	129	107	5	83				2 50		207 45	41 49	2 50	64	1 36
Cutter.....	129	107	5	91¼				2 25	2 00	190 25	38 05	2 09	71	1 24
Cutter.....	104	90	4	74¼				2 50		185 60	46 40	2 50	71	1 51
Cutter.....	103	87	4	70¾				2 50		174 95	43 74	2 50	70	1 44
Cutter.....	104	90	4	64¼				2 25	2 00	140 85	35 21	2 18	63	1 14
Cutter.....	102	81	4	49				2 50		122 50	30 62	2 50	48	1 00
Cutter.....	77	66	3	60½				2 50	2 25	146 50	48 83	2 42	80	1 59
Cutter.....	77	64	3	59½				2 25		133 30	44 43	2 25	78	1 45
Cutter.....	77	64	3	56				2 00		112 00	37 33	2 00	73	1 22
Cutter.....	77	64	3	56				2 00		112 00	37 33	2 00	73	1 22
Cutter.....	77	65	3	44¾				2 25		100 60	33 53	2 25	58	1 10
Cutter.....	52	42	2	39¼				2 00		78 50	39 25	2 00	77	1 29
Cutter.....	52	41	2	20½				2 00	1 75	39 25	19 62	1 91	40	64
Blaste .....	129	107	5	105½				2 30		242 55	48 51	2 30	82	1 59
Blaste .....	129	107	5	100½				2 30		231 15	46 23	2 30	78	1 51
Blaste .....	129	107	5	99				2 30		227 70	45 54	2 30	77	1 49
Blaste .....	78	69½	3	56¾				2 30		129 95	43 32	2 30	73	1 41
Blaste .....	26	20	1	20				2 30		46 00	46 00	2 30	77	1 50
Timberman .....	206	170½	8	183¼				2 30		421 45	52 68	2 30	89	1 72
Timberman .....	206	170½	8	179¾				2 30		419 35	51 67	2 30	87	1 69
Timberman .....	206	170½	8	159¾				2 30		367 40	45 92	2 30	78	1 50
Timberman .....	181	153	7	147¼				2 30		338 60	50 01	2 30	84	1 63
Timberman .....	129	107	5	97¼			1 75			170 15	34 03	1 75	75	1 11
Timberman .....	129	111	5	79¾				2 30		168 45	33 69	2 30	57	1 09
Timberman .....	102	82	4	98¾				2 00		197 50	51 37	2 00	101	1 69
Timberman .....	103	87	4	78¾				2 30		180 50	45 70	2 30	78	1 50
Timberman .....	75	77	3	65				1 75		113 75	37 92	1 75	87	1 24
Timberman .....	77	76	3	68¼				1 75		110 65	36 88	1 75	82	1 20



Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.	Percentage of time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	Low-est.		Am't.	Am't.	Am't			Am't.
Timberman.....	52	48		2	43 <sup>1</sup> / <sub>2</sub>	.....	\$2 30	.....		\$100 05	\$50 03	\$2 30		85	\$1 61
Timberman.....	52	42		2	49 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		86 20	43 10	1 75		87	1 41
Timberman.....	52	42		2	39 <sup>1</sup> / <sub>2</sub>	.....	2 00	.....		78 50	39 25	2 00		75	1 29
Timberman.....	27	20		1	23	.....	1 75	.....		46 00	46 00	1 75		95	1 50
Timberman.....	27	24		1	25	.....	1 75	.....		43 75	43 75	1 75		93	1 41
Timberman.....	25	24		1	23 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		41 55	41 55	1 75		96	1 34
Timberman.....	27	20		1	23	.....	1 75	.....		40 25	40 25	1 75		85	1 30
Timberman.....	25	24		1	21	.....	1 75	.....		36 50	36 50	1 75		84	1 18
Helper.....	206	170 <sup>1</sup> / <sub>2</sub>		8	170	.....	1 75	.....		296 60	37 07	1 75		83	1 21
Helper.....	206	170 <sup>1</sup> / <sub>2</sub>		8	158 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		277 80	34 72	1 75		77	1 13
Helper.....	206	170 <sup>1</sup> / <sub>2</sub>		8	155 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		272 50	34 06	1 75		76	1 11
Helper.....	206	170 <sup>1</sup> / <sub>2</sub>		8	145 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		255 00	31 86	1 75		71	1 04
Helper.....	181	149		7	133 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		233 20	33 31	1 75		73	1 09
Helper.....	179	147		7	92	.....	1 75	.....		161 00	23 00	1 75		51	75
Helper.....	154	129		6	125	.....	1 75	.....		218 70	36 45	1 75		80	1 19
Helper.....	156	127		6	101 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		178 05	29 67	1 75		65	97
Helper.....	129	107		5	103 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		181 55	36 31	1 75		81	1 19
Helper.....	129	105		5	98 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		172 40	34 48	1 75		76	1 13
Helper.....	129	107		5	92 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		161 45	32 29	1 75		71	1 06
Helper.....	129	105		5	84 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		146 50	29 30	1 75		65	96
Helper.....	129	107		5	83 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		146 10	29 22	1 75		65	95
Helper.....	129	107		5	66 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		116 75	23 35	1 75		52	76
Helper.....	104	90		4	74 <sup>1</sup> / <sub>2</sub>	.....	2 00	\$1 75		135 30	33 82	1 82		72	1 10
Helper.....	104	83		4	65	.....	1 75	.....		113 70	28 42	1 75		62	93
Helper.....	77	66		3	66 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		116 35	38 78	1 75		87	1 27
Helper.....	77	66		3	54 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		95 35	31 78	1 75		71	1 04
Helper.....	77	64		3	54 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		94 90	31 63	1 75		70	1 03
Helper.....	77	64		3	53 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		93 20	31 07	1 75		70	1 01
Helper.....	77	64		3	52 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		91 45	30 48	1 75		67	99
Helper.....	77	64		3	50 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		88 40	29 47	1 75		65	96
Helper.....	77	64		3	48	.....	1 75	.....		83 95	27 98	1 75		62	91
Helper.....	52	42		2	40	.....	1 75	.....		70 00	35 00	1 75		77	1 15
Helper.....	52	41		2	38 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		67 35	33 67	1 75		75	1 10
Helper.....	52	42		2	37 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		66 05	33 02	1 75		73	1 08
Helper.....	52	42		2	37 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		65 15	32 57	1 75		69	1 07
Helper.....	52	41		2	37	.....	1 75	.....		64 75	32 37	1 75		71	1 06
Helper.....	52	41		2	35 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		62 55	31 27	1 75		70	1 03
Helper.....	25	22		1	22	.....	1 75	.....		38 50	38 50	1 75		88	1 24
Helper.....	26	20		1	20 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		35 40	35 40	1 75		77	1 14
Helper.....	27	24		1	20 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		35 40	35 40	1 75		74	1 14
Helper.....	26	20		1	20	.....	1 75	.....		35 00	35 00	1 75		77	1 13
Helper.....	25	22		1	18	.....	1 75	.....		31 50	31 50	1 75		72	1 02
Helper.....	25	18		1	15	.....	1 75	.....		26 25	26 25	1 75		60	88
Helper.....	27	20		1	14 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		25 40	25 40	1 75		56	82
Helper.....	27	24		1	11 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		20 10	20 10	1 75		45	63
Helper.....	25	18		1	9	.....	1 75	.....		15 75	15 75	1 75		36	53
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	172 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		301 40	37 68	1 75		83	1 23
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	169 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		297 90	37 24	1 75		82	1 22
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	168	.....	1 75	.....		293 80	36 72	1 75		82	1 20
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	165 <sup>3</sup> / <sub>4</sub>	.....	1 75	.....		289 60	36 20	1 75		81	1 18
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	158 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		277 30	34 66	1 75		77	1 13
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	156 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		273 40	34 17	1 75		76	1 12
Loader.....	206	170 <sup>1</sup> / <sub>2</sub>		8	137 <sup>1</sup> / <sub>2</sub>	.....	1 75	.....		240 55	30 07	1 75		67	1 02

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.					
Loader .....	206	170½	8	124	.....	.....	\$1 75	.....	.....	\$216 95	\$27 12	\$1 75	60	\$0 89
Loader .....	181	149	7	141¾	.....	.....	1 75	.....	.....	244 45	34 92	1 75	78	1 14
Loader .....	181	149	7	138	.....	.....	1 75	.....	.....	241 50	34 50	1 75	76	1 13
Loader .....	181	149	7	122	.....	.....	1 75	.....	.....	213 45	30 44	1 75	67	1 00
Loader .....	184	129	6	117¾	.....	.....	1 75	.....	.....	205 15	34 19	1 75	76	1 11
Loader .....	156	127	6	114¾	.....	.....	1 75	.....	.....	200 25	33 38	1 75	74	1 09
Loader .....	156	127	6	112¾	.....	.....	1 75	.....	.....	197 25	32 88	1 75	72	1 07
Loader .....	156	127	6	106	.....	.....	2 00	\$1 75	.....	188 90	31 48	1 75	68	1 02
Loader .....	154	129	6	93¾	.....	.....	1 75	.....	.....	163 60	27 27	1 75	60	89
Loader .....	156	127	6	92½	.....	.....	1 75	.....	.....	161 80	26 97	1 75	60	88
Loader .....	129	107	5	105¾	.....	.....	2 00	1 75	.....	190 50	38 10	1 80	82	1 25
Loader .....	129	107	5	107	.....	.....	1 75	.....	.....	186 90	37 38	1 75	83	1 22
Loader .....	129	107	5	104¾	.....	.....	1 75	.....	.....	184 65	36 33	1 75	82	1 21
Loader .....	129	107	5	105¼	.....	.....	1 75	.....	.....	182 35	36 47	1 75	82	1 19
Loader .....	129	107	5	104	.....	.....	1 75	.....	.....	181 95	36 39	1 75	80	1 19
Loader .....	129	107	5	103½	.....	.....	1 75	.....	.....	181 10	36 22	1 75	80	1 18
Loader .....	129	107	5	102¾	.....	.....	1 75	.....	.....	179 75	35 95	1 75	80	1 17
Loader .....	129	105	5	102½	.....	.....	1 75	.....	.....	179 35	35 87	1 75	80	1 17
Loader .....	129	107	5	102¾	.....	.....	1 75	.....	.....	179 35	35 87	1 75	80	1 17
Loader .....	129	107	5	102	.....	.....	1 75	.....	.....	178 45	35 69	1 75	80	1 17
Loader .....	129	107	5	101½	.....	.....	1 75	.....	.....	177 55	35 51	1 75	80	1 16
Loader .....	129	107	5	100½	.....	.....	1 75	.....	.....	175 90	35 18	1 75	78	1 15
Loader .....	129	107	5	97¾	.....	.....	1 75	.....	.....	171 00	34 20	1 75	76	1 12
Loader .....	129	107	5	97	.....	.....	1 75	.....	.....	169 70	33 94	1 75	75	1 11
Loader .....	129	107	5	96	.....	.....	1 75	.....	.....	167 95	33 59	1 75	75	1 10
Loader .....	129	107	5	95¾	.....	.....	1 75	.....	.....	167 50	33 50	1 75	75	1 09
Loader .....	129	112	5	93	.....	.....	2 00	1 75	.....	166 10	33 22	1 80	72	1 09
Loader .....	129	107	5	94	.....	.....	1 75	.....	.....	164 50	32 90	1 75	73	1 08
Loader .....	129	107	5	93¾	.....	.....	1 75	.....	.....	164 05	32 81	1 75	73	1 07
Loader .....	129	107	5	93½	.....	.....	1 75	.....	.....	163 60	32 72	1 75	73	1 07
Loader .....	129	107	5	93¼	.....	.....	1 75	.....	.....	163 15	32 63	1 75	72	1 07
Loader .....	129	107	5	92½	.....	.....	1 75	.....	.....	161 85	32 37	1 75	72	1 06
Loader .....	129	107	5	92½	.....	.....	1 75	.....	.....	161 85	32 37	1 75	72	1 06
Loader .....	129	107	5	91¾	.....	.....	1 75	.....	.....	159 65	31 93	1 75	71	1 04
Loader .....	129	107	5	103½	.....	.....	1 50	.....	.....	159 50	31 90	1 50	80	1 04
Loader .....	129	107	5	88¾	.....	.....	1 75	.....	.....	154 40	30 88	1 75	64	1 01
Loader .....	129	107	5	99½	.....	.....	1 75	1 00	.....	135 85	27 17	1 37	78	88
Loader .....	129	107	5	73½	.....	.....	1 75	.....	.....	128 55	25 71	1 75	57	84
Loader .....	129	107	5	105	.....	.....	1 00	.....	.....	105 00	21 00	1 00	81	69
Loader .....	129	107	5	60	.....	.....	1 75	.....	.....	105 00	21 00	1 75	47	69
Loader .....	129	107	5	89¾	.....	.....	1 00	90	.....	86 40	17 28	96	70	56
Loader .....	104	90	4	90½	.....	.....	2 30	1 75	.....	171 60	42 90	1 90	88	1 40
Loader .....	104	90	4	89	.....	.....	1 75	.....	.....	155 75	38 94	1 75	87	1 27
Loader .....	104	90	4	85½	.....	.....	1 75	.....	.....	149 60	37 40	1 75	83	1 22
Loader .....	104	90	4	84¾	.....	.....	1 75	.....	.....	147 45	36 86	1 75	82	1 20
Loader .....	104	90	4	84	.....	.....	1 75	.....	.....	147 00	36 75	1 75	81	1 20
Loader .....	104	90	4	83½	.....	.....	1 75	.....	.....	146 10	36 52	1 75	81	1 19
Loader .....	104	90	4	83	.....	.....	1 75	.....	.....	144 80	36 20	1 75	80	1 18
Loader .....	104	90	4	81	.....	.....	1 75	.....	.....	142 60	35 65	1 75	78	1 16
Loader .....	104	90	4	80½	.....	.....	1 75	.....	.....	140 85	35 21	1 75	78	1 14

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.
Loader .....	102	81	4	80%	.....	\$1 75	.....	\$140 35	\$35 09	\$1 75	78	\$1 15
Loader .....	104	90	4	76½	.....	1 75	.....	133 90	33 47	1 75	74	1 09
Loader .....	104	85	4	74	.....	1 75	.....	129 45	32 36	1 75	71	1 05
Loader .....	104	90	4	69	.....	1 75	.....	120 75	30 19	1 75	66	98
Loader .....	104	90	4	66	.....	1 75	.....	115 50	28 87	1 75	63	94
Loader .....	104	85	4	32½	.....	1 75	.....	56 35	14 09	1 75	31	48
Loader .....	77	65	3	66	.....	1 75	.....	115 50	33 50	1 75	86	1 26
Loader .....	77	66	3	66	.....	1 75	.....	115 50	33 50	1 75	86	1 26
Loader .....	77	66	3	65½	.....	1 75	.....	114 15	33 05	1 75	84	1 24
Loader .....	65	65	3	65	.....	1 75	.....	113 70	37 90	1 75	84	1 24
Loader .....	77	66	3	64	.....	1 75	.....	111 95	37 32	1 75	83	1 22
Loader .....	77	66	3	63½	.....	1 75	.....	110 70	36 90	1 75	82	1 20
Loader .....	77	66	3	60¾	.....	1 75	.....	106 30	35 43	1 75	80	1 16
Loader .....	77	66	3	57	.....	1 75	.....	99 75	33 25	1 75	74	1 08
Loader .....	77	64	3	57	.....	1 75	.....	99 75	33 25	1 75	74	1 08
Loader .....	57	57	3	57	.....	1 75	.....	99 75	33 25	1 75	74	1 08
Loader .....	57	57	3	56½	.....	1 75	.....	98 85	32 95	1 75	74	1 08
Loader .....	77	64	3	54½	.....	1 75	.....	95 40	31 80	1 75	71	1 04
Loader .....	77	64	3	54½	.....	1 75	.....	94 90	31 63	1 75	71	1 03
Loader .....	77	64	3	53½	.....	1 75	.....	93 20	31 07	1 75	70	1 01
Loader .....	77	64	3	50¾	.....	2 00	\$1 75	92 50	30 83	1 84	65	1 01
Loader .....	77	64	3	49¾	.....	2 00	1 75	91 35	30 45	1 84	65	99
Loader .....	77	64	3	51¾	.....	1 75	.....	90 55	30 18	1 75	68	98
Loader .....	77	61	3	50	.....	1 75	.....	87 50	29 17	1 75	65	95
Loader .....	77	64	3	49¾	.....	1 75	.....	87 05	29 02	1 75	65	95
Loader .....	77	64	3	41¾	.....	1 75	.....	72 20	24 07	1 75	53	80
Loader .....	77	61	3	41	.....	1 75	.....	71 75	23 92	1 75	53	78
Loader .....	77	64	3	26½	.....	1 75	.....	46 40	15 47	1 75	35	50
Loader .....	77	61	3	24½	.....	1 75	.....	42 40	14 13	1 75	31	46
Loader .....	50	44	2	46¾	.....	1 75	.....	83 80	41 90	1 75	94	1 37
Loader .....	51	46	2	45½	.....	1 75	.....	79 65	39 83	1 75	90	1 30
Loader .....	50	44	2	43¾	.....	1 75	.....	76 55	38 27	1 75	88	1 25
Loader .....	50	44	2	40¾	.....	1 75	.....	71 30	35 65	1 75	82	1 17
Loader .....	50	44	2	40¾	.....	1 75	.....	71 30	35 65	1 75	82	1 17
Loader .....	50	44	2	40½	.....	1 75	.....	70 85	35 42	1 75	82	1 17
Loader .....	50	44	2	40¾	.....	1 75	.....	70 85	35 42	1 75	82	1 16
Loader .....	52	42	2	39½	.....	1 75	.....	69 15	34 57	1 75	77	1 13
Loader .....	52	42	2	39¾	.....	1 75	.....	68 65	34 33	1 75	75	1 13
Loader .....	52	41	2	39	.....	1 75	.....	68 20	34 10	1 75	75	1 12
Loader .....	50	44	2	38¾	.....	1 75	.....	67 80	33 90	1 75	78	1 11
Loader .....	50	44	2	38¾	.....	1 75	.....	66 95	33 47	1 75	76	1 10
Loader .....	52	41	2	34¾	.....	1 75	.....	60 40	30 20	1 75	67	99
Loader .....	52	41	2	33½	.....	1 75	.....	58 60	29 30	1 75	65	96
Loader .....	52	46	2	33½	.....	1 75	.....	58 60	29 30	1 75	65	95
Loader .....	52	38	2	33	.....	1 75	.....	57 75	28 88	1 75	66	95
Loader .....	50	44	2	32¾	.....	1 75	.....	57 70	28 85	1 75	66	95
Loader .....	52	41	2	32½	.....	1 75	.....	56 85	28 42	1 75	66	93
Loader .....	52	48	2	32½	.....	1 75	.....	56 85	28 42	1 75	66	92
Loader .....	52	41	2	32	.....	1 75	.....	56 00	28 00	1 75	62	92
Loader .....	52	42	2	31½	.....	1 75	.....	55 15	27 57	1 75	62	90

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Loader.....	51	46	2	31½			\$1 75	\$55 15	\$27 57	\$1 75	63	\$0 90										
Loader.....	52	41	2	29½			1 75	51 60	25 80	1 75	58	85										
Loader.....	52	41	2	29			1 75	47 20	23 60	1 75	52	77										
Loader.....	52	42	2	26½			1 75	46 40	23 20	1 75	52	76										
Loader.....	50	44	2	25¾			1 75	45 05	22 52	1 75	52	74										
Loader.....	50	44	2	25½			1 75	44 60	22 30	1 75	52	73										
Loader.....	52	42	2	25¼			1 75	44 20	22 10	1 75	48	71										
Loader.....	50	44	2	24½			1 75	42 90	21 45	1 75	50	70										
Loader.....	52	41	2	24			1 75	42 00	21 00	1 75	46	69										
Loader.....	52	38	2	21½			1 75	37 60	18 80	1 75	42	62										
Loader.....	54	44	2	19			1 75	33 20	16 60	1 75	38	54										
Loader.....	50	44	2	18			1 75	31 50	15 75	1 75	36	52										
Loader.....	52	38	2	16			1 75	28 00	14 00	1 75	31	46										
Loader.....	27	20	1	24½			1 75	42 90	42 90	1 75	90	1 38										
Loader.....	25	22	1	21¾			2 00	41 00	41 00	1 93	84	1 32										
Loader.....	25	22	1	21¼			2 00	41 00	41 00	1 93	84	1 32										
Loader.....	25	22	1	21¼			1 75	37 20	37 20	1 75	84	1 20										
Loader.....	25	22	1	21			1 75	36 75	36 75	1 75	84	1 23										
Loader.....	25	22	1	21			1 75	36 75	36 75	1 75	84	1 23										
Loader.....	25	22	1	21			1 75	36 75	36 75	1 75	84	1 23										
Loader.....	26	20	1	20			1 75	35 00	35 00	1 75	77	1 13										
Loader.....	25	22	1	20			1 75	35 00	35 00	1 75	80	1 16										
Loader.....	27	20	1	19½			1 75	34 10	34 10	1 75	74	1 10										
Loader.....	25	22	1	19¼			1 75	33 70	33 70	1 75	76	1 09										
Loader.....	25	22	1	19¼			1 75	33 70	33 70	1 75	76	1 09										
Loader.....	25	24	1	19			1 75	33 25	33 25	1 75	76	1 07										
Loader.....	25	22	1	18			1 75	31 50	31 50	1 75	72	1 05										
Loader.....	25	22	1	17½			1 75	30 60	30 60	1 75	72	99										
Loader.....	26	20	1	17			1 75	29 75	29 75	1 75	65	96										
Loader.....	25	18	1	15½			1 75	27 10	27 10	1 75	64	90										
Loader.....	25	22	1	15			1 75	26 25	26 25	1 75	60	85										
Loader.....	25	22	1	15			1 75	26 25	26 25	1 75	60	85										
Loader.....	27	20	1	13			2 00	26 00	26 00	2 00	48	84										
Loader.....	25	22	1	14¾			1 75	25 80	25 80	1 75	60	83										
Loader.....	25	22	1	14¼			1 75	24 95	24 95	1 75	56	80										
Loader.....	27	20	1	13½			1 75	23 60	23 60	1 75	52	76										
Loader.....	25	22	1	13¼			1 75	23 20	23 20	1 75	52	75										
Loader.....	27	20	1	13¼			1 75	23 20	23 20	1 75	48	75										
Loader.....	25	22	1	13¼			1 75	23 20	23 20	1 75	52	75										
Loader.....	25	22	1	13¼			1 75	23 20	23 20	1 75	52	75										
Loader.....	25	22	1	13¼			1 75	23 20	23 20	1 75	52	75										
Loader.....	25	22	1	13			1 75	22 75	22 75	1 75	52	73										
Loader.....	25	22	1	13			1 75	22 75	22 75	1 75	52	73										
Loader.....	27	20	1	13			1 75	22 75	22 75	1 75	48	73										
Loader.....	25	22	1	13			1 75	22 75	22 75	1 75	52	76										
Loader.....	25	22	1	12½			1 75	21 85	21 85	1 75	52	70										
Loader.....	25	22	1	12½			1 75	21 85	21 85	1 75	52	73										
Loader.....	25	22	1	12			1 75	21 00	21 00	1 75	52	70										
Loader.....	25	22	1	12			1 75	21 00	21 00	1 75	52	68										
Loader.....	25	22	1	12			1 75	21 00	21 00	1 75	52	68										

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.										
Loader .....	27	20	1	11 $\frac{3}{4}$			\$1 75		\$20 55	\$20 55	\$1 75	44	\$0 66									
Loader .....	25	20	1	11			1 75		19 25	19 25	1 25	45	74									
Loader .....	27	20	1	11			1 75		19 25	19 25	1 75	41	62									
Loader .....	27	20	1	11			1 75		19 25	19 25	1 75	41	62									
Loader .....	25	18	1	11			1 75		19 25	19 25	1 75	44	64									
Loader .....	27	20	1	10			1 75		17 50	17 50	1 75	37	56									
Loader .....	27	20	1	9 $\frac{1}{2}$			1 75		16 60	16 60	1 75	37	53									
Loader .....	27	20	1	9 $\frac{1}{2}$			1 75		16 60	16 60	1 75	37	53									
Loader .....	25	22	1	9 $\frac{1}{2}$			1 75		16 60	16 60	1 75	40	54									
Loader .....	25	18	1	9 $\frac{1}{2}$			1 75		16 60	16 60	1 75	40	55									
Loader .....	25	18	1	9 $\frac{1}{2}$			1 75		16 60	16 60	1 75	40	55									
Loader .....	27	20	1	9 $\frac{1}{2}$			1 75		16 60	16 60	1 75	37	54									
Loader .....	25	22	1	9 $\frac{1}{2}$			1 75		16 20	16 20	1 75	36	52									
Loader .....	27	21	1	9			1 75		15 75	15 75	1 75	33	51									
Loader .....	27	24	1	9			1 75		15 75	15 75	1 75	33	51									
Loader .....	27	24	1	9			1 75		15 75	15 75	1 75	33	51									
Entryman .....	129	107	5	113			2 30		259 85	51 97	2 30	88	1 70									
Entryman .....	129	107	5	111 $\frac{1}{2}$			2 30		256 40	51 28	2 30	87	1 67									
Entryman .....	129	107	5	105			2 30	\$2 00	218 60	43 72	2 08	81	1 43									
Entryman .....	129	107	5	103 $\frac{3}{4}$			2 10	1 75	208 90	40 75	1 97	81	1 33									
Entryman .....	129	107	5	107			2 00	1 75	203 40	40 68	1 90	82	1 33									
Entryman .....	129	107	5	108			1 75		189 20	37 84	1 75	84	1 24									
Entryman .....	129	107	5	102 $\frac{1}{2}$			1 75		179 35	35 87	1 75	80	1 17									
Entryman .....	129	107	5	76			2 30		174 60	34 96	2 30	60	1 14									
Entryman .....	129	107	5	91 $\frac{3}{4}$			1 75		160 45	32 09	1 75	71	1 05									
Entryman .....	104	90	4	87 $\frac{3}{4}$			2 30		201 20	50 30	2 30	85	1 64									
Entryman .....	102	84	4	82 $\frac{3}{4}$			2 30		189 75	47 44	2 30	81	1 56									
Entryman .....	104	90	4	78 $\frac{3}{4}$			2 30		180 55	45 14	2 30	76	1 47									
Entryman .....	103	87	4	93			2 00	1 75	180 40	45 10	1 94	90	1 48									
Entryman .....	104	90	4	74			2 30		170 20	42 55	2 30	71	1 38									
Entryman .....	104	90	4	99			1 75		155 60	38 90	1 75	95	1 27									
Entryman .....	104	90	4	82			2 00	1 75	147 50	36 87	1 80	79	1 20									
Entryman .....	77	66	3	61 $\frac{1}{4}$			2 30	2 00	134 85	44 35	2 20	80	1 17									
Entryman .....	77	66	3	48			2 00	1 75	98 90	32 97	2 06	62	1 08									
Entryman .....	77	66	3	43			1 75		75 25	25 08	1 75	56	82									
Entryman .....	77	66	3	40			1 75		70 00	23 33	1 75	52	76									
Entryman .....	52	48	2	49 $\frac{1}{2}$			2 00		99 00	49 50	2 00	96	1 62									
Entryman .....	52	42	2	43			2 30		98 90	49 45	2 30	83	1 62									
Entryman .....	52	42	2	42 $\frac{1}{2}$			2 30		97 75	48 87	2 30	83	1 60									
Entryman .....	52	42	2	42 $\frac{1}{2}$			2 30		97 75	48 87	2 30	83	1 60									
Entryman .....	52	42	2	43			1 75		75 25	37 62	1 75	83	1 23									
Entryman .....	52	42	2	42 $\frac{1}{2}$			1 75		74 40	37 20	1 75	84	1 22									
Entryman .....	52	41	2	37			2 00		74 00	37 00	2 00	60	1 21									
Entryman .....	52	42	2	41			1 75		71 75	35 87	1 75	80	1 18									
Entryman .....	52	42	2	32			2 10		67 20	33 60	2 10	62	1 10									
Entryman .....	52	41	2	35 $\frac{1}{2}$			1 75		62 10	31 05	1 75	70	1 02									
Entryman .....	52	48	2	31 $\frac{1}{2}$			1 75		55 10	27 55	1 75	61	89									
Entryman .....	52	42	2	22			2 10		46 20	23 10	2 10	42	76									
Entryman .....	27	27	1	23 $\frac{1}{2}$			2 30		54 05	54 05	2 30	89	1 74									
Entryman .....	25	18	1	20 $\frac{3}{4}$			2 00		41 50	41 51	2 00	84	1 38									
Entryman .....	25	18	1	16 $\frac{1}{2}$			2 30		37 90	37 90	2 30	70	1 26									

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Entryman .....	25	18	1	16½	.....	\$2 00	.....	\$33 00	\$33 00	\$2 00	70	\$1 10										
Entryman .....	27	24	1	15½	.....	2 00	.....	31 00	31 00	2 00	59	1 00										
Entryman .....	25	18	1	15½	.....	2 00	.....	31 00	31 00	2 00	64	1 03										
Entryman .....	27	24	1	15	.....	1 75	.....	26 75	26 75	1 75	56	86										
Entryman .....	27	24	1	12½	.....	2 00	.....	25 00	25 00	2 00	50	81										
Entryman .....	26	20	1	10½	.....	2 30	.....	24 15	24 15	2 30	42	81										
Entryman .....	25	18	1	12	.....	1 75	.....	21 00	21 00	1 75	50	70										
Entryman .....	25	24	1	11	.....	1 75	.....	19 25	19 25	1 75	44	62										
Entryman .....	26	20	1	10½	.....	1 75	.....	18 35	18 35	1 75	42	60										
Engineer .....	206	170½	8	245	\$70 00	.....	.....	560 00	70 00	2 29	119	2 29										
Engineer .....	206	170½	8	245	50 00	.....	.....	400 00	50 00	1 63	119	1 63										
Engineer .....	129	104½	5	153	50 00	.....	.....	250 00	50 00	1 63	119	1 63										
Engineer .....	77	66	3	92	50 00	.....	.....	150 00	50 00	1 63	119	1 63										
Fireman .....	206	170½	8	239½	70 00	.....	.....	548 50	68 56	2 29	116	2 24										
Fireman .....	206	170½	8	219½	.....	1 65	.....	362 15	45 64	1 65	107	1 48										
Fireman .....	206	170½	8	179½	.....	1 50	.....	268 85	33 60	1 50	87	1 10										
Fireman .....	206	170½	8	164	.....	1 65	\$1 50	266 10	33 26	1 62	80	1 09										
Fireman .....	181	148½	7	185½	.....	1 65	.....	306 10	41 73	1 65	102	1 42										
Fireman .....	129	107	5	99¾	80 00	.....	.....	79 80	15 96	80	77	52										
Fireman .....	104	89½	4	120½	.....	1 65	.....	198 80	49 70	1 65	116	1 62										
Fireman .....	104	82½	4	87½	.....	1 65	.....	144 35	36 09	1 65	84	1 17										
Fireman .....	77	65	3	52½	.....	1 65	.....	86 20	28 73	1 65	68	94										
Fireman .....	26	20	1	23	.....	1 65	.....	41 25	41 25	1 65	96	1 33										
Blacksmith .....	206	170½	8	205¾	.....	2 25	.....	462 85	57 85	2 25	100	1 89										
Blacksmith .....	206	170½	8	193½	.....	2 00	.....	387 00	48 38	2 00	94	1 58										
Blacksmith help .....	206	170½	8	180¾	.....	1 75	.....	315 45	38 18	1 75	88	1 29										
Blacksmith help .....	206	170½	8	156¾	.....	1 65	.....	257 80	32 24	1 65	76	1 05										
Blacksmith help .....	52	41	2	39	.....	1 65	.....	64 35	32 18	1 65	75	1 05										
Pit-boss .....	129	104½	5	153	90 00	.....	.....	450 00	90 00	2 94	119	2 94										
Pit-boss .....	77	66	3	92	90 00	.....	.....	270 00	90 00	2 94	119	2 93										
Carpenter .....	206	170½	8	156½	.....	2 25	.....	351 90	43 99	2 29	75	1 44										
Weighman .....	206	170½	8	206	30 00	.....	.....	240 00	30 00	1 17	100	98										
Watchman .....	129	153	5	144	.....	1 50	.....	216 00	43 20	1 50	112	1 41										
Cager .....	206	170½	8	185¾	.....	2 30	.....	428 35	53 54	2 30	90	1 75										
Cager .....	129	107	5	103½	.....	2 30	.....	238 05	47 61	2 30	81	1 56										
Cager .....	50	44	2	40¾	.....	2 30	.....	84 55	42 27	2 30	82	1 39										
Pipeman .....	206	170½	8	182½	.....	2 30	.....	419 75	52 47	2 30	89	1 71										
Pipeman .....	206	170½	8	182¾	.....	1 50	.....	274 05	34 26	1 50	89	1 16										
Roadman .....	206	170½	8	180½	.....	2 30	.....	415 10	51 89	2 30	88	1 69										
Roadman .....	206	170½	8	161	.....	2 30	.....	370 25	46 28	2 30	78	1 51										
Roadman .....	206	170½	8	168	.....	2 00	.....	336 00	42 00	2 00	82	1 37										
Roadman .....	181	153	7	167½	.....	2 30	.....	385 25	55 03	2 30	93	1 80										
Roadman .....	181	149	7	118¾	.....	2 30	.....	271 90	38 84	2 30	65	1 27										
Roadman .....	156	127	6	118	.....	2 30	.....	271 40	45 23	2 30	76	1 48										
Roadman .....	129	107	5	112½	.....	2 30	.....	228 75	45 75	2 30	88	1 50										
Roadman .....	129	107	5	92¾	.....	1 75	.....	162 30	32 46	1 75	72	1 06										
Roadman .....	102	81	4	102¾	.....	2 30	.....	235 15	58 79	2 30	100	1 93										
Roadman .....	104	90	4	79¾	.....	1 75	1 50	123 60	30 90	1 55	77	1 00										

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.		Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.	Percentage of possible time actually at work.....	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days		High-est.	High-est.		Low-est.	Am't.	Am't.		Am't	Time			
Roadman.....	77	64	3	68½				\$2 00				\$136 50	\$45 50	\$2 00	90	\$1 48	
Roadman.....	77	65	3	52¾				2 30	\$1 50			106 30	35 43	2 02	70	1 16	
Roadman.....	77	64	3	60				1 75				105 00	35 00	1 75	80	1 14	
Roadman.....	79	61	3	47				1 75				82 25	27 42	1 75	60	90	
Roadman.....	77	60	3	29				1 75				50 75	16 92	1 75	40	56	
Roadman.....	52	42	2	51½				2 30				117 85	58 92	2 30	98	1 93	
Roadman.....	52	42	2	37¾				2 00				75 50	37 75	2 00	75	1 24	
Roadman.....	52	42	2	33¾				2 00				67 00	33 50	2 00	65	1 10	
Roadman.....	52	38	2	27				2 30				62 10	31 05	2 30	52	1 02	
Roadman.....	50	44	2	30¾				2 00				60 50	30 25	2 00	60	99	
Roadman.....	52	38	2	26				2 30	2 00			56 95	28 47	2 19	50	93	
Roadman.....	27	20	1	24½				2 00				49 00	49 00	2 00	93	1 60	
Roadman.....	25	32	1	26				1 75				45 50	45 50	1 75	104	1 47	
Roadman.....	25	24	1	23¾				1 75				41 55	41 55	1 75	96	1 34	
Roadman.....	25	24	1	23½				1 75				41 10	41 10	1 75	96	1 33	
Roadman.....	27	20	1	22½				1 75				39 40	39 40	1 75	85	1 27	
Roadman.....	25	22	1	20½				1 75				35 90	35 90	1 75	84	1 16	
Roadman.....	25	24	1	16				1 75				28 00	28 00	1 75	64	93	
Roadman.....	27	20	1	12				2 30				27 60	27 60	2 30	44	90	
Roadman.....	25	24	1	15				1 75				26 25	26 25	1 75	60	85	
Roadman.....	27	20	1	11				3 30				25 30	25 30	2 30	41	82	
Roadman.....	25	18	1	14				1 75				24 50	24 50	1 75	56	82	
Roadman.....	27	20	1	10½				2 30				24 15	24 15	2 30	41	80	
Roadman.....	27	20	1	8				2 30				18 40	18 40	2 30	30	60	
Roadman.....	27	20	1	8½				2 00				17 00	17 00	2 00	33	55	
Roadman.....	25	24	1	9½				1 75				16 60	16 60	1 75	40	54	
Roadman.....	27	20	1	7½				2 00				15 00	15 00	2 00	30	50	
Roadman.....	27	20	1	7½				2 00				15 00	15 00	2 00	30	50	
Roadman.....	27	20	1	7½				2 00				15 00	15 00	2 00	30	50	
Mule-tender....	206	170½	8	245		\$50 00						400 00	50 00	1 63	119	1 63	
Driver.....	206	170½	8	171¾				2 00				343 50	42 94	2 00	83	1 40	
Driver.....	206	170½	8	172½				1 85	1 75			305 55	38 19	1 77	84	1 25	
Driver.....	206	170½	8	155				2 00	1 75			305 10	38 14	1 97	75	1 25	
Driver.....	206	170½	8	171¾				1 85	1 75			304 75	38 09	1 77	83	1 24	
Driver.....	206	170½	8	178¾				1 50				268 10	33 51	1 50	87	1 09	
Driver.....	154	129	6	121½				1 75	1 50			187 30	31 21	1 54	79	1 02	
Driver.....	129	105	5	108				1 85	1 75			193 30	38 66	1 79	84	1 26	
Driver.....	104	90	4	78¾				2 00				156 50	39 12	2 00	75	1 27	
Driver.....	52	42	2	40				2 00				80 00	40 00	2 00	77	1 31	
Driver.....	50	44	2	40¾				2 00	1 75			76 10	38 05	1 89	80	1 25	
Driver.....	50	44	2	37½				1 75				65 20	32 60	1 75	76	1 07	
Driver.....	50	44	2	36¾				1 75				63 40	31 70	1 75	72	1 04	
Driver.....	25	22	1	19¾				1 85				36 55	36 55	1 85	80	1 18	
Driver.....	25	18	1	11½				1 75				20 10	20 10	1 75	50	67	
Driver.....	25	24	1	11				1 75				19 25	19 25	1 75	44	62	
Driver.....	25	22	1	9				2 00				18 00	18 00	2 00	36	60	
Driver.....	25	22	1	10				1 75				17 50	17 50	1 75	40	58	
Dumper.....	206	170½	8	184¾				1 75				323 30	40 41	1 75	90	1 32	
Powderman.....	206	170½	8	174¾				1 50				262 15	32 77	1 50	85	1 07	

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days									
Trimmer .....	206	170½	8	168¾	.....	.....	\$1 50	.....	\$253 15	\$31 64	\$1 50	82	\$1 04
Trimmer .....	104	90	4	68½	.....	.....	1 50	.....	102 75	25 69	1 50	66	84
Trimmer .....	79	61	3	54	.....	.....	1 50	.....	81 00	27 00	1 50	68	88
Trimmer .....	79	66	3	53½	.....	.....	1 50	.....	80 25	26 75	1 50	68	87
Trimmer .....	52	42	2	42¼	.....	.....	1 50	.....	63 35	31 67	1 50	81	1 02
Trimmer .....	26	20	1	21	.....	.....	1 65	.....	34 65	34 65	1 65	81	1 12
Trimmer .....	26	20	1	20½	.....	.....	1 65	.....	33 80	33 80	1 65	81	1 09
Trimmer .....	26	20	1	13½	.....	.....	1 50	.....	20 25	20 25	1 50	54	65
Trimmer .....	25	24	1	8½	.....	.....	1 65	.....	12 75	12 75	1 65	36	41
Stopper .....	181	149	7	121	.....	.....	1 50	.....	181 50	25 93	1 50	67	85
Stopper .....	104	90	4	87	.....	.....	1 50	.....	130 50	32 62	1 50	84	1 06
Stopper .....	25	22	1	8¾	.....	.....	1 50	.....	15 30	15 30	1 50	36	49
Trapper .....	206	170½	8	175¾	.....	.....	90	.....	158 15	19 77	90	85	65
Trapper .....	206	170½	8	170¾	.....	.....	90	.....	153 20	19 15	90	83	63
Trapper .....	206	170½	8	168¾	.....	.....	90	.....	151 85	18 98	90	82	62
Trapper .....	206	170½	8	163½	.....	.....	90	.....	147 10	18 39	90	80	60
Trapper .....	206	170½	8	156¼	.....	.....	90	.....	140 60	17 57	90	76	57

## HAND-MINERS, PAID BY THE TON.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
Miner .....	77	63½	3	54½	.....	.....	\$212 84	\$70 95	\$3 91	71	86	\$2 31												
Miner .....	77	63½	3	49½	.....	.....	181 90	60 63	3 67	64	78	1 98												
Miner .....	77	63½	3	46½	.....	.....	171 65	57 82	3 69	60	73	1 87												
Miner .....	77	63½	3	56	.....	.....	170 85	56 95	3 05	73	88	1 86												
Miner .....	77	63½	3	56	.....	.....	169 45	56 48	3 03	73	88	1 84												
Miner .....	77	63½	3	63½	.....	.....	165 45	55 15	3	82	99	1 80												
Miner .....	77	63½	3	63½	.....	.....	165 45	55 15	3	82	99	1 80												
Miner .....	77	63½	3	62	.....	.....	162 60	54 20	3	81	98	1 77												
Miner .....	77	63½	3	53	.....	.....	162 35	54 12	3	69	96	1 76												
Miner .....	77	63½	3	53	.....	.....	162 35	54 12	3	69	96	1 76												



Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.....		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Time	Time	Am't.	Am't.
Miner .....	77	63½	3	60	.....	.....	\$158 60	\$52 87	\$2 64	81	.....	.....	148 60	49 54	2 40	78	94	131 72	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	62	.....	.....	146 60	48 87	2 36	81	.....	.....	144 65	48 22	3 71	51	61	1 57	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	39	.....	.....	139 35	46 45	2 44	74	.....	.....	134 15	44 72	2 58	68	82	1 46	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	56¾	.....	.....	132 55	44 18	2 31	75	.....	.....	132 55	44 18	2 31	75	91	1 44	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	52	.....	.....	132 55	44 18	2 31	75	.....	.....	127 40	42 47	2 16	77	93	1 38	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	52	.....	.....	125 40	41 80	2 16	75	.....	.....	125 40	41 80	2 16	75	91	1 36	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	57½	.....	.....	123 75	41 25	2 29	70	.....	.....	119 65	39 85	2 34	66	80	1 30	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	57½	.....	.....	119 65	39 85	2 34	66	.....	.....	119 65	39 85	2 34	66	80	1 30	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	59¾	.....	.....	116 10	38 70	3 06	49	.....	.....	114 35	38 12	2 49	60	72	1 24	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	58	.....	.....	114 35	38 12	2 49	60	.....	.....	114 35	38 12	2 49	60	72	1 24	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	46	.....	.....	112 20	37 40	2 12	69	.....	.....	112 20	37 40	2 12	69	84	1 22	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	46¾	.....	.....	108 65	36 22	2 32	61	.....	.....	108 65	36 22	2 32	61	74	1 18	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	43	.....	.....	105 95	35 32	2 46	56	.....	.....	103 80	34 60	2 53	53	68	1 15	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	41	.....	.....	103 80	34 60	2 53	53	.....	.....	103 80	34 60	2 53	53	68	1 15	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	45	.....	.....	103 40	34 47	2 30	58	.....	.....	99 90	33 30	2 24	58	71	1 12	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	44½	.....	.....	99 90	33 30	2 24	58	.....	.....	99 90	33 30	2 24	58	70	1 09	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	44½	.....	.....	99 90	33 30	2 24	58	.....	.....	99 90	33 30	2 24	58	70	1 09	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	49½	.....	.....	82 15	27 38	1 66	64	.....	.....	77 75	25 92	2 05	49	68	89	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	38	.....	.....	77 75	25 92	2 05	49	.....	.....	76 00	25 33	1 81	55	66	83	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	42	.....	.....	73 45	24 48	2 10	45	.....	.....	73 45	24 48	2 10	45	55	80	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	29	.....	.....	73 20	24 40	2 52	38	.....	.....	73 20	24 40	2 52	38	46	80	.....	.....	.....	.....	.....	.....
Miner .....	77	63½	3	17¾	.....	.....	65 18	21 73	3 83	22	.....	.....	130 75	65 38	3 35	78	90	2 14	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	39	.....	.....	126 05	63 02	3 32	76	.....	.....	124 55	62 28	3 27	76	87	2 07	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	38	.....	.....	121 55	60 78	2 64	92	.....	.....	121 55	60 78	2 64	92	106	1 99	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	46	.....	.....	121 55	60 78	2 64	92	.....	.....	113 20	56 60	2 63	86	99	1 86	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	43	.....	.....	113 20	56 60	2 63	86	.....	.....	113 20	56 60	2 63	86	99	1 86	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	43	.....	.....	112 45	56 25	2 68	84	.....	.....	112 45	56 25	2 68	84	97	1 84	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	42	.....	.....	112 45	56 25	2 68	84	.....	.....	112 45	56 25	2 68	84	97	1 84	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	43	.....	.....	98 70	49 35	2 30	86	.....	.....	85 85	42 93	2 15	80	92	1 41	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	40	.....	.....	85 85	42 93	2 15	80	.....	.....	85 85	42 93	2 15	80	92	1 41	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	33	.....	.....	82 75	41 38	2 51	66	.....	.....	82 75	41 38	2 51	66	76	1 36	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	33	.....	.....	82 75	41 38	2 51	66	.....	.....	82 75	41 38	2 51	66	76	1 36	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	32	.....	.....	82 70	41 35	2 58	64	.....	.....	82 70	41 35	2 58	64	74	1 36	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	32	.....	.....	82 70	41 35	2 58	64	.....	.....	82 70	41 35	2 58	64	74	1 36	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	28	.....	.....	82 00	41 00	3 57	46	.....	.....	82 00	41 00	3 57	46	53	1 34	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	36	.....	.....	72 45	36 23	2 07	70	.....	.....	72 45	36 23	2 07	70	80	1 19	.....	.....	.....	.....	.....	.....
Miner .....	50	43½	2	28	.....	.....	69 80	34 90	2 49	56	.....	.....	69 80	34 90	2 49	56	64	1 14	.....	.....	.....	.....	.....	.....

Table XIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	50	43½	2	28	.....	.....	.....	\$69 80	\$34 90	\$2 49	56	64	\$1 14
Miner .....	50	43½	2	31	.....	.....	.....	63 25	31 63	2 04	62	71	1 04
Miner .....	50	43½	2	18	.....	.....	.....	63 15	31 58	3 51	36	41	1 04
Miner .....	50	43½	2	27	.....	.....	.....	62 45	31 22	2 31	54	62	1 02
Miner .....	50	43½	2	30	.....	.....	.....	61 85	30 93	2 06	87	69	1 01
Miner .....	50	43½	2	30	.....	.....	.....	61 85	30 93	2 06	87	69	1 01
Miner .....	50	43½	2	29	.....	.....	.....	58 90	29 45	2 03	58	67	97
Miner .....	50	43½	2	29	.....	.....	.....	58 90	29 45	2 03	58	67	97
Miner .....	50	43½	2	29½	.....	.....	.....	50 40	25 20	1 71	59	68	83
Miner .....	52	42	2	19	.....	.....	.....	45 10	22 55	2 37	37	45	74
Miner .....	50	43½	2	14	.....	.....	.....	38 85	19 43	2 78	28	32	64
Miner .....	50	43½	2	13	.....	.....	.....	32 50	16 25	2 50	26	30	53
Miner .....	52	42	2	20	.....	.....	.....	31 75	15 88	1 59	38	48	52
Miner .....	25	21½	1	21	.....	.....	.....	82 70	82 70	3 94	84	98	2 67
Miner .....	25	21½	1	21	.....	.....	.....	82 70	82 70	3 94	84	98	2 67
Miner .....	25	21½	1	20	.....	.....	.....	55 15	55 15	2 76	80	93	1 78
Miner .....	25	21½	1	23	.....	.....	.....	53 50	53 50	2 33	92	107	1 73
Miner .....	25	21½	1	23	.....	.....	.....	53 50	53 50	2 33	92	107	1 73
Miner .....	25	21½	1	15	.....	.....	.....	37 10	37 10	2 47	60	70	1 20
Miner .....	25	21½	1	14	.....	.....	.....	30 80	30 80	2 20	56	65	99
Miner .....	25	21½	1	10	.....	.....	.....	30 80	30 80	3 08	40	47	99
Miner .....	25	21½	1	13	.....	.....	.....	30 10	30 10	2 32	52	60	97
Miner .....	25	21½	1	13	.....	.....	.....	30 10	30 10	2 32	52	60	97
Miner .....	25	21½	1	15	.....	.....	.....	28 70	28 70	1 91	60	70	93
Miner .....	25	21½	1	15	.....	.....	.....	28 70	28 70	1 91	60	70	93
Miner .....	25	22	1	11	.....	.....	.....	21 10	21 10	1 92	44	50	70
Miner .....	25	21½	1	9	.....	.....	.....	20 10	20 10	2 27	36	4	65
Miner .....	25	21½	1	11	.....	.....	.....	17 90	17 90	1 63	44	5	58
Miner .....	25	21½	1	9	.....	.....	.....	17 90	17 90	1 99	32	4	58
Miner .....	25	21½	1	9	.....	.....	.....	17 90	17 90	1 99	32	4	58
Miner .....	25	21½	1	9	.....	.....	.....	17 45	17 45	1 94	32	4	56
Miner .....	25	21½	1	9	.....	.....	.....	17 45	17 45	1 94	32	4	56
Miner .....	25	21½	1	7	.....	.....	.....	16 30	16 30	2 33	28	3	53
Miner .....	25	21½	1	7	.....	.....	.....	16 30	16 30	2 33	28	3	53
Miner .....	27	20	1	8	.....	.....	.....	14 40	14 40	8 60	30	40	46
Miner .....	25	20½	1	7	.....	.....	.....	14 15	14 15	2 02	28	3	46
Miner .....	27	20	1	4½	.....	.....	.....	11 10	11 10	2 47	17	23	36
Miner .....	27	20	1	4½	.....	.....	.....	11 10	11 10	2 47	17	23	36
Miner .....	25	21½	1	4	.....	.....	.....	9 30	9 30	2 32	16	2	30
Miner .....	25	21½	1	4	.....	.....	.....	9 30	9 30	2 32	16	2	30
Miner .....	25	21½	1	3	.....	.....	.....	8 75	8 75	2 92	12	1	28
Miner .....	25	21½	1	5	.....	.....	.....	7 95	7 95	1 59	20	2	26
Miner .....	25	21½	1	5	.....	.....	.....	7 95	7 95	1 53	20	2	26
Miner .....	25	21½	1	5	.....	.....	.....	7 30	7 30	1 46	20	2	24
Miner .....	25	21½	1	5	.....	.....	.....	7 30	7 30	1 46	20	2	24
Miner .....	27	20	1	2	.....	.....	.....	6 75	6 75	3 38	7	10	22
Miner .....	27	20	1	3	.....	.....	.....	5 95	5 95	1 98	11	15	19
Miner .....	27	20	1	3	.....	.....	.....	5 95	5 95	1 98	11	15	19

## RECAPITULATION—Establishment V.

## MACHINE OPERATIVES, PAID BY THE DAY.

OCCUPATIONS.	Number of men.	Working time.	Net earnings.	AVERAGES.			
		Days.		Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Machine foremen .....	4	299	\$705 65	\$64 15	105	\$2 36	\$2 06
Cutters .....	26	2,459½	6,011 40	44 20	70	2 41	1 39
Blasters .....	5	381½	877 35	46 17	77	2 30	1 50
Timbermen .....	18	1,395¾	2,954 60	44 76	84	2 12	1 41
Helpers .....	38	2,506¾	4,389 35	31 80	69	1 75	1 02
Loaders .....	174	9,539¾	16,523 45	31 41	66	1 73	1 02
Entry men .....	44	2,346¼	4,732 50	39 11	71	2 01	1 20
	309	18,959¼	\$36,194 30				

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

Mine bosses .....	2	245	\$720 00	\$90 00	100	\$3 00	\$3 00
Engineers .....	4	735	1,360 00	56 66	100	1 85	1 85
Firemen .....	10	1,372¾	4,302 10	41 11	89	1 68	1 29
Blacksmiths .....	2	399¼	849 85	53 11	97	2 13	1 73
Blacksmith helpers .....	3	375½	637 60	35 42	79	1 70	1 13
Carpenter .....	1	156½	351 90	43 99	75	2 25	1 44
Weighman .....	1	206	240 60	30 00	100	1 17	0 98
Dumper .....	1	181¾	323 30	40 41	90	1 75	1 33
Watchman .....	1	144	216 00	43 20	100	1 50	1 41
Mule-tender .....	1	245	400 00	50 00	100	1 63	1 63
Cagers .....	3	330	750 95	50 06	84	2 30	1 90
Pipemen .....	2	365¼	698 80	43 36	100	1 90	1 43
Roadmen .....	39	2,030¾	4,225 65	39 49	80	2 30	1 12
Drivers .....	17	1,372¾	2,460 20	36 18	71	1 79	1 07
Trimmers .....	9	450½	681 95	38 41	63	1 51	0 88
Stoppers, boys .....	3	216¾	327 30	27 28	61	1 50	1 00
Powderman .....	1	174¾	262 15	32 77	85	1 50	1 07
Trappers, boys .....	5	834½	750 90	18 77	81	90	61
	105	9,838½	\$17,553 65				

## HAND-MINERS, PAID BY THE TON.

OCCUPATION.	No. of men.	No. of months on the pay-roll.	Net earnings	AVERAGES.			
				Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Daily subsistence fund per man.
Hand-miners .....	51	October.....	\$1,175 91	\$23 04	\$23 04	49.2	\$2 34
Hand-miners .....	74	November..	3,402 25	45 98	45 98	80.7	2 58
Hand-miners .....	97	December..	4,118 71	42 46	42 46	79	2 56
	108		\$8,696 87	\$39 18	\$39 18	73.1	\$2 53

**TABLE XV.—Summaries of Results Shown by Monthly Pay-rolls.****ESTABLISHMENT VI.—Coal Mine in LaSalle County.**

CONDITIONS:—Depth of shaft, 74 feet; thickness of coal, 5½ feet; working places, wet; system of working, pillar-and-room; mining done by hand; price of mining, 80 cents a ton for screened coal; screen bars ½ of an inch apart; check-weighman at the scale.

**COAL MINERS, PAID BY THE TON.**

MONTHS.  1888.  1889.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	Whole number of men on the pay-roll during the month.	Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.	Average net earnings per man per month.	Average net earnings per man per day.	Average number of tons mined per man per day.	Average number of days' work performed per man.	Number of men required to produce same tonnage if at work full running time.
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.
May .....	26	11	332	3,023	11,282	\$9,291 51	\$27 99	\$3 07	3.73	9.1	275
June .....	26	18	362	4,915	18,415	14,816 83	40 93	3 01	3.75	13.5	273
July .....	25	20	369	5,238	18,387	14,988 95	40 62	3 01	3.51	14.1	262
August .....	27	15	356	4,161	13,874	11,514 60	32 34	2 77	3.33	11.6	277
September .....	25	19	384	6,354	20,676	16,657 34	43 38	3 22	3.25	16.5	334
October .....	27	26	397	6,847	22,643	17,560 76	44 23	3 22	3.56	3.31	17
November .....	25	17	387	5,346	17,019	13,798 41	35 65	2 58	3.18	13.8	314
December .....	25	14	386	4,433	13,782	11,483 91	29 75	2 22	3.11	11.5	317
January .....	25	14	386	4,487	14,665	11,982 46	31 04	2 22	3.27	11.6	321
February .....	23	13	390	4,520	14,168	11,641 80	29 85	2 12	3.13	11.6	348
March .....	25	9	378	3,165	10,232	8,538 99	22 59	2 70	3.23	8.4	352
April .....	26	11	355	3,415	11,944	9,679 64	27 27	2 83	3.50	9.6	310
The year .....	306	187	589	55,904	187,087	\$151,955 20	\$33 90	\$2 72	3.35	12.47	299
Monthly Avs..	25.5	15.6	374	4,659	15,591	12,662 93	33 90	2 72	41.74	12.47	299

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	11	120	2,224½	.....	\$3,853 00	\$32 11	\$1 73	.....	18.5	.....
June .....	26	18	130	2,843	.....	4,964 81	38 19	1 75	.....	21.9	.....
July .....	25	20	126	2,628¾	.....	4,492 60	35 65	1 71	.....	20.9	.....
August .....	27	15	123	2,432¼	.....	4,185 30	34 03	1 31	.....	19.8	.....
September .....	25	19	133	2,992	.....	5,125 25	38 54	1 71	.....	22.4	.....
October .....	27	26	131	3,109	.....	5,284 35	40 34	1 70	.....	23.7	.....
November .....	25	17	123	2,737¾	.....	4,668 85	36 47	1 70	.....	21.4	.....
December .....	25	14	126	2,509	.....	4,356 20	34 57	1 74	.....	19.9	.....
January .....	26	14	120	2,452½	.....	4,258 50	35 49	1 74	.....	20.4	.....
February .....	23	13	126	2,188¾	.....	3,805 70	30 20	1 74	.....	17.4	.....
March .....	25	9	113	1,854¾	.....	3,201 20	28 33	1 73	.....	16.5	.....
April .....	26	11	111	1,801½	.....	3,126 80	28 17	1 74	.....	16.2	.....
The year .....	306	187	252	29,773¼	.....	\$51,322 56	\$34 51	\$1 72	.....	20	.....
Monthly Avs..	25.5	15.6	124	2,481	.....	4,276 88	34 51	1 72	.....	20	.....
Totals .....	306	187	*841	85,677¼	187,087	\$203,277 76	.....	.....	41.74	.....	.....
General Av..	25.5	15.6	497	7,140	15,591	1,777 31	\$34 06	\$2 37	41.74	14.4	.....

\*In addition to these, 90 transient miners and miners' sons worked 3,464 days during the year, mining 7,512 tons and earning \$6,273; and 60 laborers worked 448 days and earned \$1,044.

TABLE XVI.--Individual Earnings and Working Time.

ESTABLISHMENT VI.—*Coal Mine in LaSalle County.**Conditions of employment given at the head of preceding table.*

## COAL MINERS, PAID BY THE TON.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	306	185	12	149	\$860 16	\$27 31	\$832 85	\$69 40	\$5 58	49	81	\$2 28
Miner .....	306	185	12	167	730 42	35 61	694 81	57 90	4 16	55	90	1 90
Miner .....	306	185	12	154	702 85	24 05	678 80	56 56	4 40	50	83	1 85
Miner .....	306	185	12	154	702 85	24 05	678 80	56 56	4 40	50	83	1 85
Miner .....	306	185	12	167	674 60	26 41	948 19	54 01	3 88	55	90	1 77
Miner .....	306	185	12	178	672 40	34 46	637 94	53 16	3 58	58	96	1 75
Miner .....	306	185	12	157	658 60	22 82	635 78	52 98	4 04	51	85	1 74
Miner .....	306	185	12	156	656 15	22 62	633 53	52 72	4 06	51	84	1 73
Miner .....	306	185	12	157	654 75	22 67	632 08	52 67	4 02	51	85	1 73
Miner .....	306	185	12	150	648 95	23 55	625 40	52 12	4 17	49	81	1 71
Miner .....	306	185	12	160	631 35	32 47	598 88	49 90	3 74	52	86	1 64
Miner .....	306	185	12	148	616 55	21 44	595 11	49 59	4 02	48	80	1 63
Miner .....	306	185	12	148	614 05	21 44	592 61	49 38	4 00	48	80	1 62
Miner .....	306	185	12	173	624 70	32 68	592 02	49 33	3 42	57	94	1 62
Miner .....	306	185	12	185	621 80	32 89	588 91	49 08	3 18	60	100	1 61
Miner .....	306	185	12	185	621 80	32 89	588 91	49 08	3 18	60	100	1 61
Miner .....	306	185	12	140	605 65	21 10	584 55	48 73	4 18	46	76	1 60
Miner .....	306	185	12	160	597 85	23 69	574 16	47 85	3 59	52	86	1 57
Miner .....	306	185	12	178	603 15	29 87	573 28	47 77	3 22	58	96	1 57
Miner .....	306	185	12	164	599 54	31 20	568 34	47 36	3 46	54	88	1 56
Miner .....	306	185	12	150	590 23	22 08	568 15	47 35	3 79	49	81	1 56
Miner .....	306	185	12	150	590 75	23 52	567 23	47 27	3 78	49	81	1 55
Miner .....	306	185	12	147	563 60	22 56	541 04	45 09	3 67	48	79	1 48
Miner .....	306	185	12	134	554 65	20 89	533 76	44 48	3 98	44	72	1 46
Miner .....	306	185	12	124	547 70	18 68	529 02	44 08	4 26	41	67	1 45
Miner .....	306	185	12	160	558 80	29 80	529 00	44 08	3 31	52	86	1 45
Miner .....	306	185	12	173	553 75	30 19	523 56	43 62	3 03	57	94	1 44
Miner .....	306	185	12	173	553 75	30 19	523 56	43 62	3 03	57	93	1 44
Miner .....	306	185	12	158	544 95	25 57	519 38	43 28	3 29	52	85	1 42
Miner .....	306	185	12	137	537 53	19 81	517 72	43 14	3 78	45	74	1 42
Miner .....	306	185	12	138	547 35	30 73	516 62	43 05	3 74	45	75	1 42
Miner .....	306	185	12	161	536 60	24 88	511 72	42 64	3 18	52	87	1 40
Miner .....	306	185	12	158	535 30	25 10	510 20	42 52	3 23	52	85	1 40
Miner .....	306	185	12	158	535 30	25 60	509 70	42 48	3 23	52	85	1 40
Miner .....	306	185	12	158	538 54	28 90	509 64	42 47	3 23	52	85	1 40
Miner .....	306	185	12	162	538 46	29 12	509 34	42 45	3 14	53	87	1 40
Miner .....	306	185	12	143	526 03	20 47	505 56	42 13	3 53	47	77	1 39
Miner .....	306	185	12	172	531 45	29 18	502 27	41 86	2 92	56	92	1 38
Miner .....	306	185	12	136	518 70	19 94	498 76	41 56	3 67	44	74	1 37
Miner .....	306	185	12	136	518 25	19 91	498 34	41 52	3 66	44	74	1 37
Miner .....	306	185	12	171	527 15	29 01	498 14	41 51	2 91	56	92	1 36
Miner .....	306	185	12	129	514 95	18 72	496 23	41 35	3 84	42	70	1 36
Miner .....	306	185	12	178	525 05	29 18	495 87	41 32	2 79	58	96	1 36
Miner .....	306	185	12	156	518 25	25 47	492 78	41 06	3 16	51	84	1 35
Miner .....	306	185	12	163	520 60	23 58	492 02	41 00	3 02	53	88	1 35

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Time	Time	Am't.	Am't.		
Miner .....	306	185	12	153	\$519 12	\$28 20	\$490 92	\$40 91	\$3 21	50	82	\$1 35												
Miner .....	306	185	12	150	514 70	27 83	486 87	40 57	3 24	49	81	1 34												
Miner .....	306	185	12	150	508 75	23 31	485 44	41 45	3 24	49	81	1 33												
Miner .....	306	185	12	148	511 36	28 04	483 32	40 28	3 27	48	80	1 33												
Miner .....	306	185	12	150	505 92	27 32	478 60	39 88	3 19	49	81	1 31												
Miner .....	306	185	12	121	496 40	19 04	477 36	39 78	3 94	40	65	1 31												
Miner .....	306	185	12	121	496 40	19 04	477 36	39 78	3 94	40	65	1 31												
Miner .....	306	185	12	175	505 05	28 67	476 38	39 70	2 72	57	94	1 30												
Miner .....	306	185	12	164	498 25	26 92	471 33	39 28	2 87	54	88	1 29												
Miner .....	306	185	12	151	495 10	24 30	470 80	39 23	3 12	49	81	1 29												
Miner .....	306	185	12	150	486 60	23 58	463 02	38 58	3 09	49	81	1 27												
Miner .....	306	185	12	143	489 04	26 13	462 91	38 58	3 23	47	77	1 27												
Miner .....	306	185	12	151	489 60	26 83	462 77	38 56	3 06	49	81	1 27												
Miner .....	306	185	12	142	486 76	26 83	459 93	38 33	3 24	46	76	1 26												
Miner .....	306	185	12	179	486 85	27 76	459 09	38 26	2 56	58	96	1 26												
Miner .....	306	185	12	158	482 72	24 16	458 56	38 21	2 90	52	85	1 25												
Miner .....	306	185	12	165	485 10	27 33	457 77	38 15	2 77	54	89	1 25												
Miner .....	306	185	12	165	481 70	26 97	454 73	37 89	2 75	54	89	1 25												
Miner .....	306	185	12	169	481 30	26 85	454 45	37 87	2 69	55	91	1 25												
Miner .....	306	185	12	169	481 30	27 35	453 95	37 83	2 69	55	91	1 24												
Miner .....	306	185	12	162	480 25	27 03	453 22	37 77	2 73	53	87	1 24												
Miner .....	306	185	12	161	477 30	26 51	450 79	37 56	2 80	53	87	1 23												
Miner .....	306	185	12	165	476 40	26 72	449 68	37 47	2 75	54	89	1 23												
Miner .....	306	185	12	158	475 10	25 57	449 53	37 46	2 85	52	85	1 23												
Miner .....	306	185	12	169	474 50	26 86	447 64	37 30	2 65	55	91	1 23												
Miner .....	306	185	12	167	473 55	27 01	446 54	37 21	2 67	55	90	1 22												
Miner .....	306	185	12	167	473 55	27 01	446 54	37 21	2 67	55	90	1 22												
Miner .....	306	186	12	171	470 45	27 00	443 45	36 95	2 58	56	92	1 21												
Miner .....	306	185	12	159	467 85	24 78	443 07	36 92	2 70	52	86	1 21												
Miner .....	306	185	12	160	467 75	26 36	441 39	36 78	2 75	52	86	1 21												
Miner .....	306	185	12	163	464 05	26 27	437 78	36 48	2 68	53	88	1 20												
Miner .....	306	185	12	160	463 75	26 14	437 61	36 47	2 73	52	86	1 20												
Miner .....	306	185	12	159	461 65	24 45	437 20	36 43	2 75	52	86	1 20												
Miner .....	306	185	12	154	462 65	26 02	436 63	36 39	2 83	50	83	1 20												
Miner .....	306	185	12	144	460 11	25 23	434 88	36 24	3 02	47	77	1 19												
Miner .....	306	185	12	168	458 30	26 06	432 24	36 02	2 57	55	90	1 19												
Miner .....	306	185	12	170	458 15	26 29	431 86	35 99	2 54	55	92	1 18												
Miner .....	306	185	12	164	453 40	24 95	428 45	35 70	2 61	54	88	1 17												
Miner .....	306	186	12	166	454 25	26 18	428 07	35 67	2 58	54	89	1 17												
Miner .....	306	185	12	157	451 30	25 66	425 64	35 47	2 71	51	85	1 17												
Miner .....	306	185	12	164	450 85	25 55	425 30	35 44	2 59	54	88	1 16												
Miner .....	306	185	12	164	450 85	25 55	425 30	35 44	2 59	54	88	1 16												
Miner .....	306	185	12	164	450 35	25 99	424 36	35 36	2 58	51	88	1 16												
Miner .....	306	185	12	163	450 25	25 91	424 34	35 36	2 60	53	88	1 16												
Miner .....	306	185	12	165	449 00	25 98	423 02	35 25	2 56	54	89	1 16												
Miner .....	306	185	12	165	449 00	25 98	423 02	35 25	2 56	54	89	1 16												
Miner .....	306	185	12	164	448 35	25 99	422 36	35 19	2 57	54	88	1 16												
Miner .....	306	185	12	164	445 65	25 81	419 84	34 98	2 56	54	88	1 15												
Miner .....	306	185	12	161	445 60	25 78	419 82	34 98	2 60	52	87	1 15												
Miner .....	306	185	12	163	444 65	25 79	418 86	34 90	2 57	53	88	1 15												

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Am't.	
Miner .....	306	185	12	163	444 65	\$25 79	\$418 86	\$34 90	\$2 57	53	88	\$1 15												
Miner .....	306	185	12	165	443 25	25 74	417 51	34 79	2 53	54	89	1 14												
Miner .....	306	185	12	160	443 00	25 70	417 30	34 77	2 60	52	86	1 14												
Miner .....	306	185	12	138	436 95	21 00	415 95	34 66	3 01	45	75	1 14												
Miner .....	306	185	12	143	440 40	25 66	414 74	34 56	2 90	47	77	1 14												
Miner .....	306	185	12	162	439 70	25 09	414 61	34 55	2 56	53	87	1 14												
Miner .....	306	185	12	152	438 85	24 58	414 27	34 52	2 72	49	82	1 13												
Miner .....	306	185	12	161	437 10	25 45	411 65	34 30	2 55	53	87	1 13												
Miner .....	306	185	12	161	437 10	25 45	411 65	34 30	2 55	53	87	1 13												
Miner .....	306	185	12	150	435 55	24 61	410 94	34 24	2 74	49	81	1 13												
Miner .....	306	185	12	164	434 85	25 42	409 43	34 12	2 49	54	88	1 12												
Miner .....	306	185	12	159	433 85	25 29	408 56	34 05	2 57	52	86	1 12												
Miner .....	306	185	12	160	433 40	24 96	408 44	34 04	2 55	52	86	1 12												
Miner .....	306	185	12	162	433 40	25 00	408 40	34 03	2 52	53	87	1 12												
Miner .....	306	185	12	169	431 25	25 40	405 85	33 82	2 40	55	91	1 11												
Miner .....	306	185	12	169	431 25	25 40	405 85	33 82	2 40	55	91	1 11												
Miner .....	306	185	12	147	430 10	24 31	405 79	33 82	2 76	48	79	1 11												
Miner .....	306	185	12	162	430 60	24 85	405 75	33 81	2 50	53	87	1 11												
Miner .....	306	185	12	160	429 90	25 16	404 73	33 73	2 53	52	86	1 11												
Miner .....	306	185	12	157	429 90	25 19	404 71	33 73	2 58	51	85	1 11												
Miner .....	306	185	12	158	426 07	24 31	401 76	33 48	2 54	52	85	1 10												
Miner .....	306	185	12	158	426 65	25 00	401 65	33 47	2 54	52	85	1 10												
Miner .....	306	185	12	160	426 80	25 16	401 64	33 47	2 51	52	86	1 10												
Miner .....	306	185	12	150	425 05	23 80	401 25	33 44	2 67	49	81	1 10												
Miner .....	306	185	12	165	425 55	25 11	400 44	33 37	2 43	54	89	1 10												
Miner .....	306	185	12	158	424 65	24 91	399 74	33 31	2 53	52	85	1 10												
Miner .....	306	185	12	152	422 65	24 76	397 89	33 16	2 62	49	82	1 09												
Miner .....	306	185	12	156	422 10	24 69	397 41	33 12	2 55	51	84	1 09												
Miner .....	306	185	12	159	419 35	24 75	394 60	32 88	2 48	52	86	1 08												
Miner .....	306	185	12	156	419 05	24 63	394 42	32 87	2 53	51	84	1 08												
Miner .....	306	185	12	160	416 55	24 59	391 96	32 66	2 45	52	86	1 07												
Miner .....	306	185	12	157	416 00	24 59	391 41	32 62	2 49	51	85	1 07												
Miner .....	306	185	12	156	415 60	24 54	391 06	32 59	2 50	51	84	1 07												
Miner .....	306	185	12	145	413 30	22 55	390 75	32 56	2 69	47	78	1 07												
Miner .....	306	185	12	159	414 65	24 07	390 58	32 55	2 46	52	86	1 07												
Miner .....	306	185	12	159	414 65	24 07	390 58	32 55	2 46	52	86	1 07												
Miner .....	306	185	12	156	415 05	24 78	390 57	32 55	2 50	51	84	1 07												
Miner .....	306	185	12	164	413 65	24 43	388 92	32 41	2 37	53	88	1 07												
Miner .....	306	185	12	155	412 50	23 93	388 57	32 38	2 50	51	83	1 06												
Miner .....	306	185	12	159	412 40	24 07	388 33	32 36	2 44	52	86	1 06												
Miner .....	306	185	12	156	411 85	23 67	388 18	32 18	2 48	51	84	1 06												
Miner .....	306	185	12	148	411 15	24 08	387 07	32 25	2 61	48	80	1 06												
Miner .....	306	185	12	163	410 45	24 59	386 86	32 15	2 36	53	88	1 06												
Miner .....	306	185	12	159	408 85	24 39	384 46	32 04	2 42	52	86	1 05												
Miner .....	306	185	12	159	408 85	24 39	384 46	32 04	2 42	52	86	1 05												
Miner .....	306	185	12	159	406 70	24 24	382 46	31 87	2 40	52	86	1 05												
Miner .....	306	185	12	152	406 20	24 01	382 19	31 85	2 51	49	82	1 05												
Miner .....	306	185	12	159	403 40	24 00	379 40	31 62	2 38	52	86	1 04												
Miner .....	306	185	12	159	403 40	24 00	379 40	31 62	2 38	52	86	1 04												
Miner .....	306	185	12	156	401 15	24 09	377 06	31 42	2 41	51	84	1 03												

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days				Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	306	185	12	12	\$160	\$400 25	\$23 25	\$377 00	\$31 41	\$2 36	52	86	\$1 03
Miner.....	306	185	12	12	151	400 10	23 34	376 79	31 39	2 49	49	81	1 03
Miner.....	306	185	12	12	153	398 80	23 91	374 86	31 24	2 45	50	82	1 03
Miner.....	303	185	12	12	146	395 80	22 53	373 27	31 11	2 56	47	78	1 02
Miner.....	306	185	12	12	151	396 60	23 69	372 91	31 08	2 47	49	81	1 02
Miner.....	306	185	12	12	155	395 00	23 77	371 23	30 94	2 39	51	83	1 02
Miner.....	306	185	12	12	155	395 00	23 77	371 23	30 94	2 39	51	83	1 02
Miner.....	306	185	12	12	146	393 65	23 00	370 65	30 89	2 54	47	78	1 02
Miner.....	306	185	12	12	146	392 85	23 00	369 85	30 82	2 53	47	78	1 01
Miner.....	306	185	12	12	142	391 50	22 20	369 30	30 78	2 60	46	76	1 01
Miner.....	306	185	12	12	147	390 50	23 37	367 13	30 59	2 49	48	79	1 01
Miner.....	306	185	12	12	150	386 20	23 25	362 95	30 25	2 42	49	81	90
Miner.....	306	185	12	12	149	385 85	23 38	362 47	30 20	2 43	49	81	99
Miner.....	306	1 5	12	12	144	384 60	22 57	362 03	30 15	2 51	47	77	99
Miner.....	305	185	12	12	144	384 85	23 13	361 72	30 14	2 51	47	77	99
Miner.....	306	185	12	12	144	383 20	22 60	361 60	30 05	2 50	47	77	99
Miner.....	306	185	12	12	144	383 20	22 60	360 60	30 05	2 50	47	77	99
Miner.....	306	185	12	12	147	382 80	22 60	360 20	30 02	2 45	48	79	99
Miner.....	306	185	12	12	147	382 80	22 60	360 20	30 02	2 45	48	79	99
Miner.....	306	185	12	12	152	383 20	23 20	360 00	30 00	2 37	49	82	99
Miner.....	305	185	12	12	152	383 20	23 20	360 00	30 00	2 37	49	82	99
Miner.....	306	185	12	12	151	378 35	23 06	355 29	29 61	2 35	49	81	97
Miner.....	306	185	12	12	138	377 00	22 27	354 73	29 56	2 57	45	75	97
Miner.....	306	185	12	12	150	376 22	22 23	353 99	29 50	2 36	49	81	97
Miner.....	306	185	12	12	145	375 40	22 41	352 99	29 41	2 43	47	78	97
Miner.....	306	185	12	12	147	372 60	22 27	350 33	29 19	2 43	48	79	96
Miner.....	306	185	12	12	140	368 95	21 61	347 34	28 95	2 48	45	75	95
Miner.....	306	185	12	12	146	369 60	22 57	347 03	28 92	2 37	47	78	95
Miner.....	306	185	12	12	138	367 60	21 97	345 63	28 80	2 50	45	75	95
Miner.....	306	185	12	12	141	367 50	22 53	344 97	28 75	2 45	46	76	94
Miner.....	306	185	12	12	142	364 70	20 87	343 83	28 65	2 42	46	76	94
Miner.....	306	185	12	12	139	364 45	21 10	343 35	28 61	2 47	45	75	94
Miner.....	306	185	12	12	139	364 45	21 60	342 85	28 57	2 46	45	75	94
Miner.....	306	185	12	12	135	364 40	21 78	342 62	28 55	2 53	44	72	94
Miner.....	306	185	12	12	142	361 60	22 00	339 60	28 30	2 39	46	76	93
Miner.....	305	185	12	12	147	361 65	22 20	339 45	28 28	2 31	48	79	93
Miner.....	306	185	12	12	139	360 40	22 16	338 24	28 19	2 43	45	75	93
Miner.....	306	185	12	12	141	356 60	21 58	335 02	27 92	2 37	46	76	92
Miner.....	306	185	12	12	139	353 45	21 04	332 41	27 70	2 39	45	75	91
Miner.....	306	185	12	12	141	354 35	21 96	332 39	27 70	2 35	46	76	91
Miner.....	306	185	12	12	135	352 84	21 44	331 40	27 61	2 45	44	72	91
Miner.....	306	185	12	12	145	351 85	21 95	329 90	27 49	2 27	47	78	90
Miner.....	306	185	12	12	138	350 15	21 41	328 74	27 39	2 38	45	75	90
Miner.....	306	185	12	12	135	347 10	20 63	326 47	27 20	2 40	44	72	89
Miner.....	306	185	12	12	139	345 70	21 47	324 23	27 02	2 33	45	75	89
Miner.....	306	185	12	12	138	345 60	21 63	323 97	26 99	2 34	45	75	89
Miner.....	3 16	185	12	12	135	341 50	20 36	321 14	26 76	2 37	44	72	88
Miner.....	306	185	12	12	131	339 35	20 33	319 02	26 58	2 43	42	70	87
Miner.....	306	185	12	12	132	336 50	20 62	315 88	26 32	2 39	43	71	87
Miner.....	306	185	12	12	126	334 80	20 67	314 13	26 17	2 49	41	68	86



Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	306	185	12	126	\$334 80	\$20 67	\$314 13	\$26 17	\$2 49	41	68	\$0 86	
Miner .....	306	185	12	114	332 10	19 63	312 47	26 04	2 74	37	61	86	
Miner .....	306	185	12	125	328 35	20 24	308 11	25 68	2 46	40	67	84	
Miner .....	306	185	12	131	328 00	20 12	307 88	25 66	2 35	42	70	84	
Miner .....	306	185	12	131	327 00	20 12	306 86	25 57	2 34	42	70	84	
Miner .....	306	185	12	122	319 00	18 45	300 55	25 05	2 46	39	65	82	
Miner .....	306	185	12	131	319 60	20 08	299 57	24 96	2 28	42	70	82	
Miner .....	306	185	12	125	310 60	19 49	291 11	24 24	2 33	40	67	79	
Miner .....	306	185	12	130	305 05	19 38	285 67	23 81	2 19	42	70	78	
Miner .....	306	185	12	130	305 05	19 38	285 67	23 81	2 19	42	70	78	
Miner .....	306	185	12	124	295 10	18 49	276 61	22 05	2 23	40	67	76	
Miner .....	306	185	12	117	279 70	17 57	262 13	21 84	2 24	38	63	72	
Miner .....	280	174	11	163	554 25	29 28	524 97	47 72	3 22	58	93	1 57	
Miner .....	281	171	11	165	502 40	27 21	475 19	43 20	2 88	59	96	1 42	
Miner .....	280	174	11	163	444 95	25 23	419 72	38 16	2 57	58	93	1 25	
Miner .....	280	174	11	147	440 45	24 27	416 18	37 88	2 82	52	84	1 24	
Miner .....	280	174	11	159	433 25	24 85	408 40	37 13	2 56	57	91	1 19	
Miner .....	280	174	11	153	414 90	23 92	390 98	35 54	2 55	54	87	1 17	
Miner .....	280	174	11	148	409 45	23 61	385 84	35 08	2 60	53	85	1 15	
Miner .....	280	174	11	137	388 20	22 14	366 06	33 28	2 67	49	78	1 09	
Miner .....	280	174	11	150	387 90	22 46	365 44	33 22	2 43	53	86	1 09	
Miner .....	281	166	11	128	378 15	18 61	359 54	32 69	2 81	45	77	1 07	
Miner .....	280	174	11	145	377 30	22 35	354 95	32 27	2 44	52	83	1 06	
Miner .....	280	174	11	141	376 38	22 15	354 23	32 20	2 51	50	81	1 06	
Miner .....	280	174	11	147	376 50	22 42	354 08	32 19	2 40	52	84	1 06	
Miner .....	281	168	11	141	374 55	21 74	352 81	32 07	2 50	50	83	1 05	
Miner .....	279	159	11	110	359 94	20 52	339 42	30 86	3 08	39	69	1 02	
Miner .....	280	174	11	138	358 15	21 55	336 60	30 60	2 44	49	79	1 00	
Miner .....	281	166	11	140	356 65	21 47	335 18	30 47	2 39	49	84	1 00	
Miner .....	280	174	11	140	354 50	21 44	333 06	30 28	2 37	50	80	99	
Miner .....	280	174	11	136	350 60	21 21	329 39	29 94	2 42	48	78	98	
Miner .....	280	174	11	136	350 60	21 21	329 39	29 94	2 42	48	78	98	
Miner .....	280	167	11	136	349 15	20 65	328 50	29 86	2 41	48	81	98	
Miner .....	279	159	11	126	339 45	20 38	319 07	29 00	2 53	45	79	95	
Miner .....	280	167	11	135	338 95	20 27	318 68	28 97	2 36	48	80	95	
Miner .....	280	174	11	126	333 45	20 12	313 33	28 48	2 48	45	72	94	
Miner .....	280	174	11	132	332 70	19 38	313 32	28 48	2 37	47	75	94	
Miner .....	280	167	11	140	326 80	19 86	306 94	27 90	2 19	50	83	92	
Miner .....	281	168	11	119	317 55	19 05	298 50	27 14	2 50	42	70	89	
Miner .....	279	159	11	121	315 45	19 06	296 39	26 94	2 44	43	76	88	
Miner .....	254	156	10	106	458 80	15 79	443 01	44 30	4 17	41	67	1 45	
Miner .....	254	156	10	119	409 40	18 99	390 41	39 04	3 28	46	76	1 22	
Miner .....	254	156	10	151	403 45	23 14	380 31	38 03	2 51	59	97	1 25	
Miner .....	254	156	10	151	403 45	23 14	380 31	38 03	2 51	59	97	1 25	
Miner .....	255	165	10	147	402 20	22 94	379 26	37 92	2 58	57	89	1 24	
Miner .....	255	165	10	141	396 75	22 49	374 26	37 42	2 65	55	85	1 23	
Miner .....	254	156	10	142	362 10	21 28	340 82	34 08	2 40	55	91	1 12	
Miner .....	254	156	10	133	360 10	19 99	340 11	34 01	2 56	52	85	1 12	
Miner .....	254	156	10	136	356 90	20 95	335 95	33 59	2 47	53	87	1 10	
Miner .....	254	156	10	142	356 90	21 07	335 83	33 58	2 36	55	91	1 10	

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	254	156	10	125	\$347 75	\$20 16	\$327 59	\$32 76	\$29 83	62	49	\$1 08
Miner.....	254	156	10	130	346 05	20 32	325 73	32 57	29 86	51	83	1 07
Miner.....	254	156	10	122	338 60	19 28	319 32	31 93	28 39	48	78	1 05
Miner.....	253	159	10	131	335 20	19 57	315 63	31 56	28 40	51	82	1 03
Miner.....	256	154	10	111	305 80	17 50	288 30	28 83	25 59	43	72	95
Miner.....	254	150	10	117	301 45	18 03	283 42	28 34	2 42	46	78	93
Miner.....	254	150	10	113	286 35	17 57	268 78	26 87	2 37	44	75	88
Miner.....	255	165	10	102	266 00	16 32	249 68	24 97	2 44	40	62	81
Miner.....	229	128	9	105	417 20	15 48	401 72	44 63	3 82	45	82	1 47
Miner.....	229	136	9	117	380 36	20 86	359 50	39 94	3 07	51	86	1 31
Miner.....	228	132	9	116	353 95	19 87	334 08	37 13	2 88	50	87	1 22
Miner.....	229	136	9	128	347 15	19 93	327 22	36 36	2 55	55	94	1 19
Miner.....	232	152	9	124	328 10	19 16	308 94	34 32	2 49	53	81	1 12
Miner.....	229	136	9	122	327 65	18 97	308 68	34 30	2 53	53	89	1 13
Miner.....	232	152	9	118	326 55	18 56	307 99	34 22	2 61	50	77	1 11
Miner.....	229	136	9	122	319 60	18 76	300 84	33 42	2 46	53	89	1 10
Miner.....	229	136	9	115	317 10	18 38	298 72	33 19	2 59	50	84	1 09
Miner.....	228	132	9	111	278 60	16 79	261 81	29 09	2 35	48	84	96
Miner.....	228	132	9	113	277 00	16 99	260 01	28 89	2 30	49	83	95
Miner.....	229	136	9	108	269 00	16 24	252 76	28 08	2 34	47	79	92
Miner.....	229	123	9	97	263 85	15 63	248 22	27 58	2 55	42	78	90
Miner.....	229	136	9	100	233 95	14 70	219 25	24 36	2 19	43	73	80
Miner.....	229	131	9	87	218 90	13 56	205 34	22 81	2 36	38	66	75
Miner.....	206	138	8	106	420 85	15 39	405 46	50 68	3 82	51	76	1 65
Miner.....	202	121	8	95	376 05	13 49	362 56	45 32	3 81	47	78	1 49
Miner.....	202	121	8	113	350 60	19 34	331 26	41 41	2 93	55	93	1 37
Miner.....	202	121	8	107	343 20	18 17	325 03	40 63	3 03	53	88	1 34
Miner.....	202	121	8	103	340 10	16 62	323 48	40 43	3 14	50	85	1 33
Miner.....	202	121	8	120	322 10	18 40	303 70	37 96	2 53	59	99	1 25
Miner.....	202	121	8	93	318 40	13 90	304 50	38 06	3 16	46	76	1 25
Miner.....	202	121	8	116	320 70	18 23	302 47	37 80	2 60	57	95	1 25
Miner.....	202	121	8	116	316 95	18 20	298 75	37 84	2 57	57	95	1 23
Miner.....	202	121	8	99	315 70	17 34	298 36	37 29	3 01	49	81	1 23
Miner.....	206	138	8	112	302 25	17 43	284 82	35 60	2 54	54	81	1 16
Miner.....	202	121	8	113	300 75	17 48	283 27	35 40	2 50	55	93	1 17
Miner.....	206	138	8	114	300 55	17 35	283 20	35 40	2 48	55	82	1 15
Miner.....	206	138	8	113	289 40	16 47	272 93	34 11	2 41	54	81	1 11
Miner.....	206	138	8	108	260 15	16 06	244 09	30 51	2 26	52	78	99
Miner.....	202	121	8	96	258 35	15 37	242 98	30 37	2 53	47	79	1 00
Miner.....	202	121	8	90	247 15	13 73	233 42	29 18	2 59	44	74	96
Miner.....	202	121	8	95	246 10	14 54	231 56	28 94	2 44	47	78	96
Miner.....	202	121	8	104	243 60	15 08	228 52	28 56	2 19	51	85	94
Miner.....	202	121	8	101	243 30	14 99	228 31	28 54	2 26	50	83	94
Miner.....	203	112	8	82	240 80	13 27	227 53	28 44	2 77	40	73	93
Miner.....	206	138	8	90	241 15	14 03	227 12	28 39	2 52	43	65	92
Miner.....	204	109	8	92	240 95	14 66	226 29	28 28	2 46	45	84	93
Miner.....	202	121	8	91	226 95	14 19	212 76	26 59	2 33	45	75	87
Miner.....	202	121	8	91	226 95	14 19	212 76	26 59	2 33	45	75	87
Miner.....	202	121	8	85	211 90	13 06	198 84	24 85	2 34	42	70	82
Miner.....	101	114	8	70	196 25	12 60	183 65	22 95	2 62	19	61	75

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	202	121	8	80	\$189 45	\$11 56	\$177 89	\$22 23	\$2 22	39	66	\$0 73
Miner .....	202	121	8	80	189 45	11 56	177 89	22 23	2 22	39	66	1 73
Miner .....	181	124	7	99	361 55	15 20	346 35	49 48	3 49	54	79	1 61
Miner .....	177	102	7	86	327 05	12 45	314 60	44 94	3 65	48	84	1 48
Miner .....	177	102	7	76	322 95	11 74	311 21	44 46	4 09	43	74	1 46
Miner .....	181	124	7	111	327 05	17 90	309 15	44 16	2 78	61	89	1 44
Miner .....	181	124	7	106	232 85	16 54	276 31	39 47	2 60	58	85	1 29
Miner .....	181	124	7	110	291 65	16 56	275 09	39 30	2 50	60	88	1 28
Miner .....	180	101	7	87	284 55	14 47	270 08	38 58	3 10	48	86	1 26
Miner .....	181	124	7	99	270 60	15 47	255 13	36 45	2 57	54	79	1 19
Miner .....	177	102	7	100	270 35	15 64	254 71	36 39	2 54	56	98	1 20
Miner .....	181	124	7	101	268 60	15 51	253 09	36 15	2 50	55	81	1 18
Miner .....	177	102	7	88	257 20	14 89	242 31	34 61	2 75	49	86	1 14
Miner .....	176	110	7	103	255 35	14 48	240 87	34 41	2 53	58	93	1 13
Miner .....	177	102	7	99	253 25	14 90	238 35	34 05	2 40	56	97	1 12
Miner .....	177	102	7	86	247 86	14 34	233 52	33 36	2 71	48	84	1 10
Miner .....	177	102	7	90	246 90	14 48	232 42	33 20	2 70	50	88	1 10
Miner .....	177	102	7	86	241 20	14 16	227 04	32 43	2 64	48	84	1 07
Miner .....	177	102	7	91	241 00	14 23	226 77	32 39	2 49	51	89	1 06
Miner .....	177	102	7	91	238 95	14 20	224 75	32 10	2 47	51	89	1 06
Miner .....	177	102	7	87	233 40	13 79	219 61	31 37	2 52	49	85	1 08
Miner .....	177	102	7	84	221 20	12 90	208 30	29 76	2 48	47	82	98
Miner .....	177	94	7	72	219 45	12 16	207 29	29 61	2 87	40	76	97
Miner .....	177	102	7	87	210 80	13 10	197 70	28 24	2 27	49	85	93
Miner .....	177	102	7	82	209 00	12 32	196 68	28 10	2 39	46	80	92
Miner .....	177	102	7	78	208 30	12 74	195 56	27 94	2 50	44	76	92
Miner .....	177	102	7	78	205 60	12 21	193 39	27 63	2 48	44	76	91
Miner .....	177	102	7	85	204 80	12 79	192 01	27 43	2 35	48	83	90
Miner .....	177	102	7	86	204 45	12 75	191 70	27 38	2 22	48	84	90
Miner .....	177	102	7	86	204 45	12 75	191 70	27 38	2 22	48	84	90
Miner .....	177	102	7	84	202 90	12 27	190 63	27 37	2 15	47	82	89
Miner .....	177	102	7	83	202 30	12 54	189 76	27 10	2 28	46	81	89
Miner .....	177	102	7	71	193 65	12 06	181 59	25 94	2 45	41	72	85
Miner .....	177	102	7	71	193 65	12 06	151 59	25 93	2 55	40	69	85
Miner .....	177	102	7	75	193 45	12 14	181 31	25 90	2 42	42	73	85
Miner .....	177	102	7	75	193 45	12 14	181 31	25 90	2 42	42	73	85
Miner .....	177	102	7	73	185 40	11 77	173 63	24 80	2 38	41	71	82
Miner .....	177	102	7	73	185 40	11 77	173 63	24 80	2 38	41	71	82
Miner .....	176	110	7	73	171 45	10 23	161 22	23 04	2 21	41	66	76
Miner .....	176	110	7	76	152 90	10 28	142 62	20 37	1 87	43	69	67
Miner .....	177	88	7	56	144 90	8 40	136 50	19 50	2 43	31	63	64
Miner .....	154	109	6	92	348 96	17 80	331 16	55 19	3 59	59	84	1 79
Miner .....	156	107	6	78	314 90	11 76	303 14	50 52	3 88	50	72	1 64
Miner .....	156	107	6	92	302 80	16 21	286 59	47 76	3 11	59	85	1 55
Miner .....	156	107	6	88	282 45	15 23	267 22	44 54	3 03	56	82	1 45
Miner .....	156	107	6	89	261 45	14 41	247 04	41 17	2 77	57	83	1 34
Miner .....	156	107	6	92	256 30	13 90	242 40	40 40	2 63	59	85	1 31
Miner .....	156	107	6	97	256 10	14 48	241 62	40 27	2 49	62	90	1 31
Miner .....	156	107	6	89	235 65	13 54	222 11	37 02	2 49	57	83	1 20
Miner .....	156	107	6	89	235 65	13 54	222 11	37 02	2 49	57	83	1 20

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employed appears on the pay-roll. <sup>1</sup>	Actual working time of employe.	Gross earnings of employe for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employe for the time he appears on the pay-roll.		Average monthly receipts for the months employe appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employe appears on the pay-roll.	
	Days	Days				Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.					
Miner .....	155	113	6	92	\$234 80	\$13 51	\$221 29	\$36 88	\$2 40	59	81	\$1 20									
Miner .....	155	113	6	92	234 80	13 51	221 29	36 88	2 40	59	81	1 20									
Miner .....	150	76	6	69	226 85	12 81	214 04	35 67	3 10	46	90	1 18									
Miner .....	150	76	6	62	218 05	9 92	208 13	34 69	3 35	41	81	1 14									
Miner .....	156	107	6	82	219 60	12 62	206 98	34 49	2 52	52	76	1 12									
Miner .....	156	107	6	81	218 00	12 66	205 34	34 22	2 53	51	75	1 11									
Miner .....	155	113	6	86	211 85	12 58	199 27	33 21	3 31	55	76	1 08									
Miner .....	155	113	6	86	211 85	12 58	199 27	33 21	3 31	55	76	1 08									
Miner .....	155	113	6	84	206 10	12 36	193 74	32 29	3 30	54	74	1 05									
Miner .....	156	107	6	76	204 90	12 14	192 76	32 11	3 53	48	71	1 05									
Miner .....	156	107	6	76	201 90	11 55	190 35	31 72	3 50	48	71	1 03									
Miner .....	151	111	6	75	199 00	11 88	187 12	31 18	3 49	49	67	1 02									
Miner .....	156	107	6	74	196 35	11 71	184 64	30 77	3 48	47	69	1 00									
Miner .....	151	111	6	73	192 10	10 98	181 12	30 18	3 48	48	65	99									
Miner .....	156	107	6	70	192 15	11 42	180 73	30 12	3 58	44	65	98									
Miner .....	151	101	6	74	186 15	11 41	174 74	29 12	2 36	49	73	96									
Miner .....	150	76	6	73	182 75	10 77	171 98	28 66	2 35	49	96	95									
Miner .....	150	76	6	67	182 35	11 12	171 23	28 54	2 55	44	88	94									
Miner .....	150	76	6	70	180 60	11 03	169 57	28 26	2 42	46	92	93									
Miner .....	150	76	6	69	178 95	11 10	167 85	27 97	2 43	46	91	92									
Miner .....	150	76	6	66	174 30	10 21	161 09	27 35	2 48	44	86	90									
Miner .....	150	76	6	67	170 75	10 64	160 11	26 68	2 39	45	88	88									
Miner .....	150	76	6	66	167 50	10 53	156 97	26 16	2 38	44	87	87									
Miner .....	150	76	6	63	160 45	9 70	150 75	25 12	2 39	42	83	83									
Miner .....	150	76	6	61	158 65	9 04	149 61	24 93	2 45	41	80	83									
Miner .....	150	76	6	61	153 75	9 67	144 08	24 01	2 36	41	80	79									
Miner .....	150	76	6	63	152 35	9 90	142 45	23 74	2 26	42	83	78									
Miner .....	150	76	6	63	152 35	9 90	142 45	23 74	2 26	42	83	78									
Miner .....	150	76	6	53	150 60	7 89	142 71	23 78	2 69	35	69	79									
Miner .....	154	89	6	58	151 35	9 33	142 02	23 67	2 45	37	65	77									
Miner .....	150	76	6	57	150 75	9 22	141 53	23 59	2 48	38	75	78									
Miner .....	151	101	6	63	145 50	9 10	136 40	22 73	2 16	42	62	75									
Miner .....	152	90	6	58	144 50	9 12	135 38	22 56	2 33	38	65	75									
Miner .....	150	76	6	54	133 80	8 53	125 27	20 88	2 32	36	71	69									
Miner .....	150	76	6	53	127 65	8 27	119 38	19 90	2 25	35	69	66									
Miner .....	129	79	5	57	267 65	9 19	258 46	51 69	4 53	44	72	1 69									
Miner .....	130	96	5	73	230 35	9 75	220 60	44 12	3 02	56	76	1 44									
Miner .....	130	96	5	84	225 70	12 18	213 52	42 70	2 54	64	87	1 39									
Miner .....	129	81	5	71	210 95	11 84	199 11	39 82	2 80	55	87	1 30									
Miner .....	129	81	5	54	204 50	7 68	196 82	39 36	3 64	42	67	1 28									
Miner .....	129	81	5	72	204 75	11 28	193 47	38 69	2 69	56	88	1 26									
Miner .....	129	81	5	54	194 90	10 21	184 69	36 94	3 42	42	66	1 20									
Miner .....	129	81	5	59	189 95	9 41	180 54	36 11	3 06	46	73	1 18									
Miner .....	129	81	5	59	188 76	10 57	179 19	35 64	3 02	46	73	1 16									
Miner .....	130	94	5	65	184 05	10 61	173 44	34 69	2 66	50	69	1 13									
Miner .....	129	81	5	70	181 40	10 62	170 78	34 15	2 44	54	86	1 11									
Miner .....	129	89	5	72	180 35	9 92	170 43	34 08	2 36	56	81	1 11									
Miner .....	129	81	5	64	175 70	10 23	165 47	33 09	2 57	49	79	1 08									
Miner .....	125	59	5	59	164 65	9 90	154 75	30 95	2 62	47	100	1 02									
Miner .....	130	96	5	65	164 15	9 80	154 35	30 87	2 38	50	68	1 00									

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner	129	81	5	64	\$163 25	\$9 78	\$153 47	\$30 69	\$2 40	49	79	\$1 00	
Miner	125	59	5	53	162 20	9 76	152 44	30 49	2 54	48	100	1 00	
Miner	129	81	5	63	161 65	9 70	151 95	30 39	2 41	49	78	99	
Miner	129	81	5	58	160 45	9 69	150 76	30 15	2 60	45	72	98	
Miner	128	88	5	60	158 70	8 90	149 80	29 96	2 50	47	68	98	
Miner	128	48	5	62	159 20	9 50	149 70	29 94	2 41	48	70	98	
Miner	126	82	5	60	156 20	9 24	146 96	29 39	2 45	48	73	97	
Miner	129	81	5	51	155 60	9 34	146 26	29 25	2 87	39	63	95	
Miner	129	81	5	59	154 10	9 41	144 69	28 94	2 45	46	72	94	
Miner	126	82	5	61	153 20	9 39	143 81	28 76	2 35	48	74	95	
Miner	125	59	5	57	150 30	9 19	141 11	28 22	2 47	46	96	93	
Miner	125	59	5	59	147 10	9 18	137 92	27 58	2 34	47	100	91	
Miner	124	65	5	54	143 25	9 25	134 00	26 80	2 45	44	83	88	
Miner	125	59	5	52	138 25	8 64	129 61	25 92	2 49	42	88	86	
Miner	125	59	5	56	137 45	8 78	128 67	25 73	2 30	45	95	85	
Miner	125	59	5	50	134 55	8 48	126 07	25 21	2 52	40	84	83	
Miner	129	89	5	53	129 35	7 77	121 58	24 31	2 29	41	59	79	
Miner	125	59	5	49	129 80	8 34	121 46	24 29	2 48	39	83	80	
Miner	129	81	5	53	126 33	7 80	118 53	23 70	2 23	41	65	77	
Miner	124	65	5	50	123 60	8 01	115 59	23 12	2 31	40	77	77	
Miner	124	65	5	40	112 05	6 79	105 26	21 95	2 63	32	61	69	
Miner	125	59	5	46	109 85	6 97	102 88	20 57	2 24	38	78	68	
Miner	125	59	5	41	105 60	6 19	99 41	19 88	2 42	33	69	66	
Miner	125	59	5	39	88 25	5 02	83 23	16 64	2 13	31	66	55	
Miner	104	78	4	72	206 35	11 15	195 20	48 80	2 71	69	92	1 58	
Miner	104	78	4	72	206 35	11 15	195 20	48 80	2 71	69	92	1 58	
Miner	104	62	4	49	200 05	6 73	193 32	48 33	3 94	47	79	1 59	
Miner	102	76	4	69	186 75	10 37	176 38	44 09	2 55	67	90	1 44	
Miner	104	62	4	55	175 00	9 55	165 45	41 36	3 00	52	88	1 34	
Miner	102	76	4	60	169 15	8 69	160 46	40 11	2 67	58	79	1 31	
Miner	102	76	4	61	168 20	9 40	158 80	39 70	2 60	59	80	1 30	
Miner	102	76	4	61	168 20	9 40	158 80	39 70	2 60	59	80	1 30	
Miner	104	80	4	59	156 50	8 82	147 68	36 92	2 50	56	74	1 20	
Miner	104	62	4	53	146 60	8 43	138 17	34 54	2 62	51	85	1 12	
Miner	104	62	4	47	141 05	7 91	133 14	33 28	2 83	45	75	1 08	
Miner	105	71	4	55	141 15	8 35	132 80	33 20	2 41	52	77	1 07	
Miner	100	47	4	46	140 40	8 17	132 23	33 05	2 87	46	97	1 10	
Miner	104	62	4	48	138 05	8 15	129 90	32 47	2 70	46	77	1 05	
Miner	103	72	4	52	134 15	7 93	126 22	31 55	2 42	50	72	1 03	
Miner	103	65	4	47	131 15	7 55	123 60	30 90	2 62	45	72	1 00	
Miner	104	62	4	48	130 50	7 82	122 68	30 67	2 55	46	67	99	
Miner	100	47	4	44	130 20	7 77	122 43	30 60	2 77	44	93	1 02	
Miner	103	71	4	49	127 55	7 10	120 45	30 11	2 46	47	69	98	
Miner	104	75	4	52	126 55	7 72	118 83	29 70	2 28	50	69	96	
Miner	99	50	4	47	120 60	7 59	113 01	28 25	2 40	47	94	93	
Miner	99	50	4	47	120 60	7 59	113 01	28 25	2 40	47	94	93	
Miner	103	72	4	47	118 25	7 29	110 96	27 74	2 36	46	65	91	
Miner	104	62	4	41	117 75	6 81	110 94	27 73	2 70	39	66	90	
Miner	104	75	4	40	116 45	7 03	109 42	27 35	2 73	38	53	89	
Miner	104	62	4	44	113 90	7 02	106 88	26 72	2 43	42	71	87	

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employee.	Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days				Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Am't.	Am't.
Miner.....	104	77	4	49		\$113 50	\$6 93		\$106 57	\$26 64	\$2 17		47	63						\$0 85	
Miner.....	104	77	4	49		113 50	6 93		106 57	26 64	2 17		47	63						87	
Miner.....	99	58	4	43		112 30	7 03		105 27	26 32	2 45		43	74						87	
Miner.....	104	78	1	47		112 15	7 14		105 01	26 25	2 23		45	60						87	
Miner.....	99	50	4	46		111 70	7 03		104 67	26 17	2 27		46	92						86	
Miner.....	100	47	4	36		110 60	6 34		104 26	26 06	2 89		36	76						87	
Miner.....	100	47	4	44		104 25	6 22		98 03	24 50	2 23		44	98						82	
Miner.....	100	47	4	44		104 25	6 22		98 03	24 50	2 23		44	98						82	
Miner.....	99	58	4	41		101 40	5 54		95 86	23 96	2 34		41	71						79	
Miner.....	104	62	4	47		101 70	6 69		95 01	23 75	2 02		45	75						77	
Miner.....	99	58	4	39		100 50	5 97		94 53	23 63	2 42		39	67						78	
Miner.....	104	62	4	37		100 20	6 43		93 77	23 44	2 53		35	59						76	
Miner.....	104	62	4	37		100 20	6 43		93 77	23 44	2 53		35	59						76	
Miner.....	100	47	4	35		97 65	5 80		91 85	22 96	2 62		35	74						76	
Miner.....	100	47	4	39		98 00	6 47		91 53	22 88	2 34		39	83						76	
Miner.....	99	50	4	39		96 60	5 91		90 69	22 67	2 32		39	78						75	
Miner.....	99	50	4	37		91 05	5 66		85 39	21 35	2 31		37	74						70	
Miner.....	104	62	4	37		86 85	5 76		81 09	20 27	2 19		36	59						65	
Miner.....	100	47	4	30		85 25	5 22		80 03	20 01	2 66		30	64						66	
Miner.....	103	72	4	37		79 90	5 06		74 84	18 71	2 02		35	51						61	
Miner.....	104	62	4	36		74 93	5 19		69 74	17 44	1 94		34	58						57	
Miner.....	99	50	4	27		65 80	3 85		61 95	15 49	2 29		27	74						51	
Miner.....	77	49	3	41		157 25	6 85		150 40	50 13	3 67		53	83						1 63	
Miner.....	77	54	3	47		142 40	7 78		134 62	44 87	2 86		61	87						1 46	
Miner.....	77	54	3	47		142 40	7 78		134 62	44 87	2 86		61	87						1 46	
Miner.....	77	57	3	47		117 25	6 85		110 40	36 80	2 35		61	82						1 20	
Miner.....	77	48	3	35		113 55	5 41		108 14	36 04	3 09		45	73						1 18	
Miner.....	77	62	3	48		113 90	6 72		107 18	35 72	2 23		62	77						1 17	
Miner.....	77	62	3	30		109 30	4 47		104 83	34 94	3 49		39	48						1 21	
Miner.....	77	62	3	42		110 05	6 39		103 66	34 55	2 46		54	67						1 14	
Miner.....	77	49	3	37		107 90	6 29		101 61	33 87	2 74		48	75						1 10	
Miner.....	77	49	3	39		106 75	6 21		100 54	33 51	2 57		50	79						1 09	
Miner.....	77	49	3	37		106 40	6 17		100 23	33 41	2 71		48	75						1 09	
Miner.....	77	49	3	41		105 30	6 28		99 02	33 00	2 41		53	84						1 07	
Miner.....	77	62	3	32		102 85	5 51		97 34	32 44	3 04		41	51						1 07	
Miner.....	77	49	3	40		101 75	6 05		95 70	31 90	2 39		52	81						1 04	
Miner.....	77	49	3	40		101 75	6 05		95 70	31 90	2 39		52	81						1 04	
Miner.....	77	49	3	37		101 35	5 96		95 39	31 79	2 58		48	75						1 04	
Miner.....	77	54	3	32		98 86	5 50		93 36	31 12	2 91		41	59						1 01	
Miner.....	77	49	3	36		96 30	5 32		90 98	30 32	2 52		46	73						99	
Miner.....	77	57	3	37		92 75	5 66		87 09	29 03	3 35		48	65						94	
Miner.....	77	49	3	30		91 25	5 22		86 03	28 67	2 86		39	61						93	
Miner.....	77	54	3	37		89 60	5 54		84 06	28 02	2 27		48	68						91	
Miner.....	77	49	3	30		89 25	5 22		84 03	28 01	2 80		39	61						91	
Miner.....	74	36	3	31		88 20	5 42		82 78	27 59	2 67		42	86						92	
Miner.....	77	49	3	27		85 45	5 16		80 29	26 76	2 97		35	55						87	
Miner.....	77	49	3	30		82 60	5 19		77 41	25 80	2 58		39	61						88	
Miner.....	74	36	3	32		80 10	5 08		75 02	25 00	3 34		43	89						83	
Miner.....	74	33	3	29		79 55	5 05		74 50	24 83	2 58		39	87						83	
Miner.....	74	33	3	24		62 70	3 82		58 88	19 62	2 45		32	73						66	

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	74	33	3	24	\$62 25	\$3 73	\$58 52	\$19 50	\$2 44	32	73	\$0 66
Miner.....	77	54	3	27	54 95	3 21	51 74	17 18	1 90	35	50	56
Miner.....	50	31	2	31	105 70	5 74	99 96	49 98	3 22	62	100	1 64
Miner.....	51	38	3	30	99 00	5 23	93 77	46 88	3 12	59	79	1 53
Miner.....	51	38	2	20	96 86	5 03	91 83	45 91	4 59	39	53	1 50
Miner.....	52	29	2	21	86 52	4 66	81 86	\$40 93	3 89	40	72	1 34
Miner.....	52	34	2	29	83 90	4 67	79 23	39 61	2 73	56	85	1 29
Miner.....	52	45	2	32	83 00	4 67	78 33	39 16	2 44	61	71	1 28
Miner.....	52	34	3	31	77 75	4 83	72 92	36 46	2 34	59	91	1 19
Miner.....	52	29	2	26	77 15	4 70	72 45	36 22	2 78	50	89	1 18
Miner.....	50	31	2	30	76 40	4 42	71 98	35 99	2 39	60	97	1 18
Miner.....	52	29	18	18	72 10	2 89	69 21	34 60	3 84	34	62	1 13
Miner.....	51	38	2	20	72 85	4 07	68 78	34 39	3 44	39	52	1 12
Miner.....	52	34	2	29	69 35	4 10	65 25	32 62	2 25	56	85	1 07
Miner.....	50	31	2	26	68 40	4 07	64 33	32 16	2 47	52	84	1 05
Miner.....	51	38	2	22	66 45	3 87	62 58	31 29	2 84	43	58	1 02
Miner.....	51	38	2	22	66 45	3 87	62 58	31 29	2 84	43	58	1 02
Miner.....	51	38	2	20	65 20	3 77	61 43	30 71	3 07	39	52	1 00
Miner.....	52	34	2	20	64 30	3 62	60 68	30 34	3 03	38	58	99
Miner.....	52	29	2	23	63 10	3 77	59 33	29 66	2 58	44	79	97
Miner.....	52	29	2	20	61 90	3 68	58 22	28 61	2 86	38	69	93
Miner.....	52	45	26	26	58 40	3 86	54 54	27 27	2 10	50	58	89
Miner.....	52	29	19	19	57 60	3 48	54 12	27 06	2 85	36	66	89
Miner.....	51	38	19	19	57 20	3 26	53 94	26 87	3 83	37	50	88
Miner.....	52	29	20	20	56 20	3 44	52 76	26 38	2 64	38	69	86
Miner.....	51	38	2	14	53 12	3 17	49 95	24 97	3 56	27	37	82
Miner.....	51	38	21	21	52 75	3 31	49 44	24 72	2 35	41	55	81
Miner.....	52	35	21	21	52 30	3 37	48 93	24 46	2 33	40	60	79
Miner.....	51	38	21	21	50 62	3 28	47 34	23 67	2 25	41	55	77
Miner.....	51	38	21	21	50 62	3 28	47 34	23 67	2 25	41	55	77
Miner.....	52	29	19	19	50 05	2 77	47 28	23 64	2 49	36	65	77
Miner.....	51	38	17	17	48 75	3 17	45 58	22 79	2 68	33	44	75
Miner.....	51	20	17	17	46 25	3 08	43 17	21 58	2 54	33	85	71
Miner.....	52	29	16	16	45 90	3 03	42 87	21 43	2 68	31	55	70
Miner.....	52	45	2	17	43 90	2 61	41 29	20 62	2 42	33	38	67
Miner.....	48	22	2	19	42 20	2 47	39 73	19 86	2 09	40	86	67
Miner.....	51	38	15	15	41 80	2 80	39 00	19 50	2 60	29	39	62
Miner.....	48	22	15	15	35 60	2 12	33 48	16 74	2 23	31	68	57
Miner.....	48	22	15	15	35 60	2 12	33 48	16 74	2 23	31	68	57
Miner.....	26	18	1	14	38 95	2 25	36 70	16 74	2 62	53	77	1 22
Miner.....	25	17	1	15	36 45	2 18	34 27	16 74	2 28	60	88	1 14
Miner.....	26	11	1	8	34 70	1 44	33 26	16 74	4 16	31	73	1 07
Miner.....	27	26	1	14	35 15	2 01	33 14	16 74	2 37	52	53	1 07
Miner.....	27	26	1	14	35 15	2 01	33 14	16 74	2 37	52	53	1 07
Miner.....	26	18	1	10	34 80	1 87	32 93	16 74	3 29	38	55	1 09
Miner.....	26	18	1	12	34 70	2 03	32 67	16 74	2 72	46	67	1 09
Miner.....	27	26	1	15	34 70	2 09	32 61	16 74	2 17	55	57	1 05
Miner.....	27	26	1	15	34 70	2 09	32 61	16 74	2 17	55	57	1 05
Miner.....	27	15	1	10	33 26	1 96	31 30	16 74	3 13	37	67	1 01
Miner.....	26	11	1	10	30 90	1 87	29 03	16 74	2 90	38	90	96

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employee.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	26	11	1	10	\$30 90	\$1 87	\$29 03	\$29 03	\$2 90	38	90	\$0 96
Miner.....	26	18	1	11	30 55	1 80	28 75	28 75	2 61	42	61	96
Miner.....	26	18	1	9	30 15	1 73	28 42	28 42	3 16	34	50	95
Miner.....	26	18	1	9	30 15	1 73	28 42	28 42	3 16	34	50	95
Miner.....	26	11	1	10	30 10	1 84	28 26	28 26	2 85	38	91	95
Miner.....	25	19	1	13	30 10	1 90	28 20	28 20	2 17	52	68	94
Miner.....	26	18	1	10	29 75	1 81	27 94	27 94	2 79	38	55	93
Miner.....	26	18	1	10	29 75	1 81	27 94	27 94	2 79	38	55	93
Miner.....	27	15	1	12	29 70	1 85	27 85	27 85	2 32	44	73	89
Miner.....	25	20	1	12	27 90	1 54	26 36	26 36	2 19	48	60	85
Miner.....	26	11	1	10	27 55	1 69	25 86	25 86	2 59	38	91	83
Miner.....	26	11	1	10	27 35	1 72	25 63	25 63	2 56	38	91	85
Miner.....	25	17	1	10	27 35	1 66	25 59	25 59	2 56	40	59	85
Miner.....	25	19	1	13	26 27	1 41	24 86	24 86	1 91	52	68	83
Miner.....	25	19	1	13	26 27	1 41	24 86	24 86	1 91	52	68	83
Miner.....	26	11	1	10	26 20	1 69	24 51	24 51	2 45	38	91	81
Miner.....	26	11	1	10	26 20	1 69	24 51	24 51	2 45	38	91	81
Miner.....	25	20	1	10	25 80	1 41	24 39	24 39	2 44	40	50	79
Miner.....	25	20	1	10	25 80	1 66	24 14	24 14	2 41	40	50	78
Miner.....	25	19	1	10	25 65	1 60	24 05	24 05	2 40	40	53	80
Miner.....	25	19	1	10	25 65	1 60	24 05	24 05	2 40	40	53	80
Miner.....	23	13	1	11	25 60	1 62	23 98	23 98	2 18	47	85	86
Miner.....	23	13	1	11	25 60	1 62	23 98	23 98	2 18	47	85	86
Miner.....	26	14	1	10	25 50	1 66	23 84	23 84	2 38	38	71	77
Miner.....	25	14	1	10	25 10	1 63	23 47	23 47	2 35	40	71	76
Miner.....	27	26	1	13	24 50	1 47	23 03	23 03	1 77	48	50	74
Miner.....	27	26	1	11	24 55	1 65	22 90	22 90	2 08	41	42	74
Miner.....	25	19	1	9	24 10	1 52	22 58	22 58	2 51	36	47	75
Miner.....	27	26	1	9	22 30	1 52	20 78	20 78	2 31	33	35	67
Miner.....	27	26	1	10	21 85	1 45	20 40	20 40	2 04	37	38	66
Miner.....	27	26	1	10	21 85	1 45	20 40	20 40	2 04	37	38	66
Miner.....	27	26	1	9	21 30	99	20 31	20 31	2 26	33	35	65
Miner.....	26	18	1	7	19 55	1 30	18 25	18 25	2 61	27	39	61
Miner.....	25	20	1	8	19 65	1 41	18 24	18 24	2 28	32	40	59
Miner.....	23	13	1	9	19 35	1 34	18 01	18 01	2 00	39	69	64
Miner.....	23	13	1	9	19 35	1 34	18 01	18 01	2 00	39	69	64
Miner.....	26	11	1	7	19 25	1 36	17 89	17 89	2 55	27	64	58
Miner.....	26	11	1	7	19 25	1 36	17 89	17 89	2 55	27	64	58
Miner.....	27	15	1	8	18 75	1 26	17 49	17 49	2 19	29	53	57
Miner.....	26	11	1	6	17 85	1 28	16 57	16 57	2 76	23	54	53
Miner.....	26	11	1	6	17 85	1 28	16 57	16 57	2 76	23	54	53
Miner.....	26	11	1	7	17 75	1 30	16 45	16 45	2 35	27	63	53
Miner.....	25	19	1	9	16 50	1 22	15 28	15 28	1 70	36	47	51
Miner.....	25	19	1	9	16 50	1 22	15 28	15 28	1 70	36	47	51



Table XVI.—Continued.

OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.										
Pit-boss.....	306	173 $\frac{3}{4}$	12	365	\$90 00	.....	.....	\$1,080 00	\$90 00	\$2 96	119	\$2 96										
Blacksmith ....	306	173 $\frac{3}{4}$	12	335 $\frac{3}{4}$	.....	\$2 25	.....	754 25	62 84	2 25	109	2 06										
Engineer.....	306	173 $\frac{3}{4}$	12	365	60 00	.....	.....	720 00	60 00	1 97	119	1 97										
Engineer.....	306	173 $\frac{3}{4}$	12	365	50 00	.....	.....	600 00	50 00	1 64	119	1 64										
Carpenter.....	306	173 $\frac{3}{4}$	12	311 $\frac{3}{4}$	.....	2 25	.....	701 20	58 43	2 25	102	1 92										
Carpenter.....	26	10 $\frac{3}{4}$	1	13	.....	2 25	.....	29 25	29 25	2 25	50	94										
Weighman.....	280	155 $\frac{3}{4}$	11	280	60 00	.....	.....	640 00	58 19	2 28	100	1 91										
Weighman.....	26	18	1	30	60 00	.....	.....	60 00	60 00	2 00	115	2 00										
Fireman.....	306	173 $\frac{3}{4}$	12	366	.....	1 65	.....	604 75	50 40	1 65	119	1 67										
Fireman.....	306	173 $\frac{3}{4}$	12	351 $\frac{3}{4}$	.....	1 65	.....	579 95	48 33	1 65	114	1 59										
Fireman.....	203	128 $\frac{3}{4}$	8	215 $\frac{3}{4}$	.....	1 15	\$1 00	228 70	28 59	1 06	106	94										
Fireman.....	77	48 $\frac{3}{4}$	3	73 $\frac{3}{4}$	.....	1 00	.....	73 50	24 50	1 00	95	80										
Night watch...	255	156 $\frac{3}{4}$	10	288	.....	1 65	1 50	457 20	45 72	1 58	113	1 50										
Roadman.....	306	173 $\frac{3}{4}$	12	339	.....	2 30	.....	779 70	64 97	2 30	110	2 14										
Roadman.....	306	173 $\frac{3}{4}$	12	324	.....	2 30	.....	745 20	62 10	2 30	106	2 04										
Roadman.....	306	173 $\frac{3}{4}$	12	274 $\frac{3}{4}$	.....	2 30	2 25	632 85	52 74	2 30	90	1 73										
Roadman.....	306	173 $\frac{3}{4}$	12	254	.....	2 30	.....	584 20	48 68	2 30	83	1 60										
Roadman.....	306	173 $\frac{3}{4}$	12	242 $\frac{3}{4}$	.....	2 15	1 75	504 30	42 02	2 07	79	1 38										
Roadman.....	306	173 $\frac{3}{4}$	12	219 $\frac{3}{4}$	.....	2 30	.....	504 20	42 02	2 30	72	1 38										
Roadman.....	306	173 $\frac{3}{4}$	12	240	.....	2 00	1 75	464 25	38 69	1 93	78	1 27										
Roadman.....	306	173 $\frac{3}{4}$	12	250	.....	1 75	.....	437 25	36 44	1 75	82	1 20										
Roadman.....	280	163	11	216 $\frac{3}{4}$	.....	2 30	.....	499 30	45 39	2 30	77	1 49										
Roadman.....	280	155 $\frac{3}{4}$	11	217 $\frac{3}{4}$	.....	1 75	.....	380 45	34 59	1 75	77	1 13										
Roadman.....	232	144 $\frac{3}{4}$	9	201 $\frac{3}{4}$	.....	2 30	1 65	382 80	42 53	1 90	87	1 39										
Roadman.....	104	63 $\frac{3}{4}$	4	96 $\frac{3}{4}$	.....	2 30	.....	221 40	55 32	2 30	92	1 80										
Roadman.....	104	63 $\frac{3}{4}$	4	74 $\frac{3}{4}$	.....	2 00	1 75	140 50	35 12	1 88	72	1 14										
Roadman.....	78	53	3	72 $\frac{3}{4}$	.....	2 30	1 75	140 35	36 78	1 93	93	1 52										
Roadman.....	78	53	3	27	.....	2 30	1 00	37 40	12 46	1 38	35	41										
Roadman.....	26	18	1	25 $\frac{3}{4}$	.....	1 75	.....	45 05	45 05	1 75	99	1 50										
Pumper.....	306	173 $\frac{3}{4}$	12	365	.....	2 30	1 65	762 95	63 58	2 09	119	2 09										
Pumper.....	229	125	9	258	.....	2 30	1 65	553 75	61 53	2 14	112	2 03										
Pumper.....	104	63 $\frac{3}{4}$	4	108	.....	2 30	.....	248 40	62 10	2 30	104	2 02										
Water bailer....	306	173 $\frac{3}{4}$	12	363 $\frac{3}{4}$	.....	1 75	.....	636 55	53 05	1 75	119	1 74										
Water bailer....	306	173 $\frac{3}{4}$	12	359 $\frac{3}{4}$	.....	1 75	.....	629 10	52 42	1 75	111	1 72										
Water bailer....	306	173 $\frac{3}{4}$	12	354	.....	1 75	.....	619 50	51 63	1 75	115	1 69										
Water bailer....	306	173 $\frac{3}{4}$	12	351 $\frac{3}{4}$	.....	1 75	.....	615 15	51 26	1 75	114	1 68										
Water bailer....	306	173 $\frac{3}{4}$	12	343 $\frac{3}{4}$	.....	1 75	.....	600 70	50 06	1 75	112	1 65										
Water bailer....	306	173 $\frac{3}{4}$	12	340 $\frac{3}{4}$	.....	1 75	.....	595 40	49 62	1 75	111	1 63										
Water bailer....	306	173 $\frac{3}{4}$	12	341 $\frac{3}{4}$	.....	1 75	1 65	592 60	49 38	1 73	112	1 62										
Water bailer....	306	173 $\frac{3}{4}$	12	335 $\frac{3}{4}$	.....	1 75	1 65	577 75	48 11	1 72	109	1 58										
Water bailer....	306	173 $\frac{3}{4}$	12	313 $\frac{3}{4}$	.....	1 75	1 65	536 80	44 73	1 71	102	1 47										
Water bailer....	306	173 $\frac{3}{4}$	12	354 $\frac{3}{4}$	.....	1 50	1 30	508 15	42 35	1 43	115	1 39										
Water bailer....	156	105 $\frac{3}{4}$	6	179	.....	1 75	.....	313 25	52 21	1 75	114	1 70										
Water bailer....	156	105 $\frac{3}{4}$	6	165 $\frac{3}{4}$	.....	1 75	.....	289 20	48 20	1 75	106	1 57										
Water bailer....	156	105 $\frac{3}{4}$	6	161 $\frac{3}{4}$	.....	1 65	.....	266 05	44 34	1 65	103	1 44										
Water bailer....	52	28 $\frac{3}{4}$	2	33 $\frac{3}{4}$	.....	1 25	.....	41 90	20 95	1 25	64	69										
Laborer, below.	306	173 $\frac{3}{4}$	12	259 $\frac{3}{4}$	.....	2 30	.....	597 30	49 77	2 30	84	1 64										
Laborer, below.	306	173 $\frac{3}{4}$	12	251 $\frac{3}{4}$	.....	1 75	1 65	424 70	35 39	1 68	82	1 16										
Laborer, below.	306	173 $\frac{3}{4}$	12	200 $\frac{3}{4}$	.....	2 00	.....	400 50	33 37	2 00	65	1 09										
Laborer, below.	280	163	11	219 $\frac{3}{4}$	.....	2 30	.....	504 75	45 73	2 30	78	1 51										
Laborer, below.	280	164 $\frac{3}{4}$	11	189	.....	2 00	.....	378 00	34 36	2 00	68	1 13										

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.
Laborer, below.	254	145	10	237	.....	\$1 65	.....	.....	.....	\$390 95	\$39 10	\$1 65	93	\$1 29
Laborer, below.	254	145	10	210 $\frac{1}{2}$	.....	1 65	.....	.....	.....	347 30	34 73	1 65	83	1 14
Laborer, below.	254	156 $\frac{1}{2}$	10	195 $\frac{1}{2}$	.....	1 65	.....	.....	.....	322 15	32 21	1 65	76	1 06
Laborer, below.	229	125	9	208 $\frac{1}{2}$	.....	1 65	.....	.....	.....	343 55	34 17	1 65	91	1 25
Laborer, below.	227	130	9	195	.....	1 65	.....	.....	.....	321 75	35 75	1 65	86	1 18
Laborer, below.	202	110	8	215	.....	1 65	.....	.....	.....	354 75	44 34	1 65	106	1 46
Laborer, below.	202	110	8	197 $\frac{1}{2}$	.....	1 65	.....	.....	.....	325 40	40 69	1 65	96	1 34
Laborer, below.	202	110	8	176 $\frac{1}{2}$	.....	1 65	.....	.....	.....	290 80	36 35	1 65	87	1 20
Laborer, below.	202	110	8	165 $\frac{3}{4}$	.....	1 65	.....	.....	.....	273 45	34 18	1 65	82	1 13
Laborer, below.	202	110	8	131 $\frac{1}{2}$	.....	2 00	\$1 75	.....	.....	250 35	31 29	1 91	65	1 03
Laborer, below.	281	120 $\frac{1}{2}$	7	139 $\frac{1}{2}$	.....	1 65	.....	.....	.....	230 50	32 93	1 65	50	1 12
Laborer, below.	177	90	7	137 $\frac{3}{4}$	.....	1 65	.....	.....	.....	227 20	32 46	1 65	78	1 07
Laborer, below.	177	90	7	164 $\frac{1}{2}$	.....	1 65	.....	.....	.....	271 00	38 71	1 65	93	1 28
Laborer, below.	154	90 $\frac{1}{2}$	6	144	.....	1 75	1 65	.....	.....	241 00	40 32	1 68	93	1 32
Laborer, below.	150	93 $\frac{1}{2}$	6	120 $\frac{1}{2}$	.....	1 75	1 65	.....	.....	206 65	34 44	1 71	80	1 14
Laborer, below.	150	68	6	124 $\frac{1}{2}$	.....	1 65	.....	.....	.....	205 00	34 17	1 65	83	1 13
Laborer, below.	150	68	6	106 $\frac{1}{2}$	.....	1 65	.....	.....	.....	176 15	29 36	1 65	71	97
Laborer, below.	129	83 $\frac{1}{2}$	5	143 $\frac{1}{2}$	.....	1 75	.....	.....	.....	250 70	50 14	1 75	111	1 64
Laborer, below.	125	53	5	129 $\frac{1}{2}$	.....	1 65	.....	.....	.....	213 25	42 65	1 65	103	1 41
Laborer, below.	129	83 $\frac{1}{2}$	5	112 $\frac{1}{2}$	.....	1 65	.....	.....	.....	185 50	37 10	1 64	87	1 21
Laborer, below.	129	83 $\frac{1}{2}$	5	96	.....	1 65	.....	.....	.....	158 30	31 66	1 65	74	1 03
Laborer, below.	125	53	5	47 $\frac{1}{2}$	.....	1 75	.....	.....	.....	82 70	16 54	1 75	38	55
Laborer, below.	99	44	4	78 $\frac{1}{2}$	.....	1 65	.....	.....	.....	129 95	32 49	1 65	80	1 07
Laborer, below.	102	69	4	78 $\frac{1}{2}$	.....	1 65	.....	.....	.....	129 50	32 37	1 65	77	1 06
Laborer, below.	104	77	4	70 $\frac{1}{2}$	.....	1 65	.....	.....	.....	115 85	28 96	1 65	67	94
Laborer, below.	99	51 $\frac{1}{2}$	4	69 $\frac{1}{2}$	.....	1 65	.....	.....	.....	114 65	28 66	1 65	70	95
Laborer, below.	77	48 $\frac{1}{2}$	3	83 $\frac{1}{2}$	.....	1 65	.....	.....	.....	137 35	45 78	1 65	108	1 49
Laborer, below.	77	48 $\frac{1}{2}$	3	76 $\frac{1}{2}$	.....	1 75	1 65	.....	.....	129 20	43 07	1 68	99	1 40
Laborer, below.	79	57	3	54 $\frac{1}{2}$	.....	2 34	.....	.....	.....	125 90	41 96	2 30	69	1 36
Laborer, below.	77	49	3	70 $\frac{1}{2}$	.....	1 65	.....	.....	.....	116 35	38 78	1 65	91	76
Laborer, below.	77	57	3	40 $\frac{1}{2}$	.....	1 75	1 65	.....	.....	67 55	22 52	1 67	52	74
Laborer, below.	52	42	2	58	.....	1 75	1 65	.....	.....	98 50	49 25	1 69	110	1 61
Laborer, below.	51	24	2	43 $\frac{1}{2}$	.....	1 75	1 65	.....	.....	73 20	36 60	1 68	85	1 18
Laborer, below.	51	28 $\frac{1}{2}$	2	44	.....	1 65	.....	.....	.....	72 55	36 27	1 65	84	1 19
Laborer, below.	52	37	2	43 $\frac{1}{2}$	.....	1 65	.....	.....	.....	71 35	25 67	1 65	83	1 17
Laborer, below.	53	33	2	36 $\frac{1}{2}$	.....	1 65	.....	.....	.....	60 60	30 30	1 65	69	99
Laborer, below.	52	42	2	35 $\frac{1}{2}$	.....	1 65	1 50	.....	.....	56 90	28 45	1 59	69	93
Laborer, below.	52	42	2	32 $\frac{1}{2}$	.....	1 65	.....	.....	.....	53 65	26 82	1 65	63	88
Laborer, below.	51	28 $\frac{1}{2}$	2	31 $\frac{1}{2}$	.....	1 65	.....	.....	.....	51 95	25 97	1 65	61	85
Laborer, below.	52	38	2	30 $\frac{1}{2}$	.....	1 65	.....	.....	.....	49 90	24 95	1 65	59	82
Laborer, below.	52	42	2	26 $\frac{1}{2}$	.....	1 65	.....	.....	.....	43 70	21 85	1 65	51	72
Laborer, below.	52	42	2	24 $\frac{1}{2}$	.....	1 75	1 65	.....	.....	41 85	20 42	1 71	47	69
Laborer, below.	25	20	1	18 $\frac{1}{2}$	.....	1 75	.....	.....	.....	31 95	31 95	1 75	73	1 07
Laborer, below.	25	20	1	16 $\frac{1}{2}$	.....	1 75	.....	.....	.....	28 85	28 85	1 75	66	96
Laborer, below.	26	18	1	17 $\frac{1}{2}$	.....	1 65	.....	.....	.....	28 45	28 45	1 65	66	95
Laborer, below.	25	20	1	13 $\frac{1}{2}$	.....	2 00	.....	.....	.....	26 50	26 50	2 00	53	88
Laborer, below.	25	15	1	14 $\frac{1}{2}$	.....	1 75	.....	.....	.....	25 80	25 80	1 75	59	86
Laborer, below.	27	15	1	14	.....	1 65	.....	.....	.....	23 10	23 10	1 65	52	75
Laborer, below.	25	20	1	12 $\frac{1}{2}$	.....	1 75	.....	.....	.....	22 30	22 30	1 75	51	74
Laborer, below.	25	20	1	13 $\frac{1}{2}$	.....	1 65	.....	.....	.....	22 25	22 25	1 65	54	74

Table XVI—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.					
Laborer, below.	26	12	1	11½	.....	\$1 75	.....	.....	.....	\$19 70	\$19 70	\$1 75	43	\$0 64
Laborer, below.	25	20	1	11½	.....	1 65	.....	.....	.....	18 55	18 55	1 65	45	60
Laborer, below.	25	20	1	11	.....	1 65	.....	.....	.....	18 15	18 15	1 65	44	58
Laborer, below.	25	20	1	10	.....	1 65	.....	.....	.....	16 50	16 50	1 65	40	53
Laborer, below.	25	20	1	7	.....	1 65	.....	.....	.....	11 55	11 55	1 65	28	37
Laborer, below.	27	15	1	10	.....	1 00	.....	.....	.....	10 00	10 00	1 00	37	32
Water shaft.....	306	173¼	12	241	.....	2 30	.....	.....	.....	554 20	46 18	2 30	79	1 52
Water shaft.....	306	173¼	12	266½	.....	2 00	\$1 75	.....	.....	509 95	42 50	1 91	87	1 39
Water shaft.....	280	164¼	11	183½	.....	1 50	.....	.....	.....	275 20	15 01	1 50	66	82
Water shaft.....	203	108	8	201	.....	1 75	1 65	.....	.....	347 65	43 46	1 73	99	1 43
Water shaft.....	156	105½	6	122	.....	2 30	.....	.....	.....	280 55	46 76	2 30	78	1 52
Water shaft.....	104	63¾	4	94¾	.....	2 30	.....	.....	.....	216 75	54 19	2 30	90	1 56
Water shaft.....	104	63¾	4	84	.....	2 30	.....	.....	.....	193 20	48 30	2 30	81	1 57
Water shaft.....	104	63¾	4	94¾	.....	1 50	.....	.....	.....	141 75	35 44	1 50	91	1 15
Water shaft.....	77	48¾	3	31½	.....	2 30	.....	.....	.....	73 00	24 33	2 30	41	79
Water shaft.....	52	28¾	3	40¾	.....	2 30	.....	.....	.....	93 10	46 55	2 30	78	1 54
Water shaft.....	52	28¾	3	36¾	.....	1 75	.....	.....	.....	63 90	31 95	1 75	70	1 05
Water shaft.....	52	28¾	3	35¾	.....	1 75	.....	.....	.....	62 55	31 27	1 75	69	1 03
Water shaft.....	52	28¾	3	36¾	.....	1 75	1 50	.....	.....	62 40	31 20	1 75	70	1 02
Water shaft.....	52	28¾	3	25	.....	2 30	.....	.....	.....	57 50	28 75	2 30	48	94
Water shaft.....	26	10¾	1	5	.....	1 75	.....	.....	.....	8 75	8 75	1 75	19	28
Picker.....	306	173¼	12	269½	.....	2 00	1 00	.....	.....	505 00	42 08	1 87	88	1 38
Picker.....	306	173¼	12	212½	.....	1 00	90	.....	.....	209 90	17 49	98	69	57
Picker.....	175	88	7	107½	.....	90	.....	.....	.....	96 70	13 81	90	61	46
Picker.....	129	83¾	5	103	.....	90	.....	.....	.....	92 70	18 54	90	79	61
Picker.....	26	9	1	16	.....	90	.....	.....	.....	14 40	14 40	90	62	48
Cager.....	306	173¼	12	212¼	.....	2 30	.....	.....	.....	489 30	40 78	2 30	70	1 34
Cager.....	306	173¼	12	191½	.....	2 30	.....	.....	.....	442 40	36 87	2 30	63	1 21
Driver.....	306	173¼	12	209¾	.....	2 00	1 65	.....	.....	397 75	33 15	1 89	69	1 09
Driver.....	306	173¼	12	192	.....	1 75	1 65	.....	.....	327 40	27 28	1 70	63	90
Driver.....	306	173¼	12	191	.....	1 75	1 65	.....	.....	325 75	27 15	1 70	62	89
Driver.....	306	173¼	12	198	.....	1 50	1 15	.....	.....	256 10	21 34	1 30	65	70
Driver.....	280	164¼	11	173½	.....	1 75	.....	.....	.....	303 55	27 60	1 75	62	91
Driver.....	279	151¼	11	174¼	.....	1 30	.....	.....	.....	226 50	22 41	1 30	62	68
Driver.....	254	145	10	267¾	.....	1 75	1 65	.....	.....	456 00	45 60	1 70	105	1 37
Driver.....	255	135¾	10	138¼	.....	2 00	.....	.....	.....	276 50	27 65	2 00	54	91
Driver.....	254	138¼	10	173¾	.....	1 30	1 00	.....	.....	196 15	19 61	1 13	68	65
Driver.....	229	125	9	190¾	.....	1 65	.....	.....	.....	313 90	34 88	1 65	83	1 15
Driver.....	229	125	9	137	.....	2 00	.....	.....	.....	274 00	30 44	2 00	60	1 00
Driver.....	229	125	9	129½	.....	2 00	1 75	.....	.....	256 80	28 53	1 98	57	94
Driver.....	206	132¼	8	141½	.....	2 00	.....	.....	.....	283 00	35 37	2 00	69	1 15
Driver.....	203	116	8	128½	.....	2 00	.....	.....	.....	257 00	32 12	2 00	64	1 06
Driver.....	203	116	8	152¼	.....	1 65	.....	.....	.....	251 15	31 39	1 65	75	1 03
Driver.....	202	110	8	109¾	.....	2 00	.....	.....	.....	218 50	27 31	2 00	54	90
Driver.....	202	110	8	107	.....	1 75	1 65	.....	.....	184 10	23 01	1 72	53	76
Driver.....	178	108½	7	167½	.....	1 65	.....	.....	.....	276 40	39 85	1 65	94	1 30
Driver.....	281	120¼	7	118¾	.....	2 00	.....	.....	.....	236 50	33 79	2 00	42	1 10
Driver.....	177	90	7	89½	.....	1 75	.....	.....	.....	156 60	22 37	1 75	50	74
Driver.....	181	120¼	7	109¼	.....	1 25	1 15	.....	.....	128 55	18 36	1 18	60	60
Driver.....	181	120¼	7	122¼	.....	1 15	1 00	.....	.....	123 55	17 65	1 01	67	58
Driver.....	180	110¼	7	50¼	.....	2 00	1 75	.....	.....	87 90	12 56	1 75	45	41
Driver.....	155	96	6	83¾	.....	2 00	1 65	.....	.....	155 10	25 85	1 85	54	84
Driver.....	150	68	6	80¾	.....	1 75	.....	.....	.....	140 85	23 47	1 75	54	78

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.			Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days				High-est.	High-est.	Low-est.		Am't.	Am't.	Am't			
Driver .....	151	81	6	78½			\$1 75	.....		\$136 90	\$28 82	\$1 75	52	\$0 75			
Driver .....	150	68	6	77%			1 75	.....		136 05	22 67	1 75	52	75			
Driver .....	152	84½	6	64%			1 65	\$1 50		100 10	16 68	1 54	42	55			
Driver .....	129	92	5	75			2 00	.....		150 00	30 00	2 00	58	98			
Driver .....	128	84	5	83½			1 75	.....		146 10	29 22	1 75	65	95			
Driver .....	130	95	5	68½			2 00	.....		136 50	27 30	2 00	53	89			
Driver .....	125	53	5	60%			2 00	.....		121 00	24 20	2 00	48	82			
Driver .....	125	61¾	5	70%			1 25	.....		87 75	17 55	1 25	56	58			
Driver .....	104	63¾	4	57			2 00	.....		114 00	28 50	2 00	55	92			
Driver .....	104	77	4	52¾			2 00	.....		105 50	26 37	2 00	51	85			
Driver .....	99	41	4	48%			2 00	.....		96 50	24 12	2 00	49	80			
Driver .....	104	63¾	4	48%			1 75	.....		85 30	21 32	1 75	46	69			
Driver .....	102	68¾	4	56%			1 50	.....		85 10	21 27	1 50	55	70			
Driver .....	104	63¾	4	47%			1 75	.....		83 15	20 79	1 75	46	68			
Driver .....	100	41	4	42%			2 00	1 75		78 00	19 50	1 81	43	65			
Driver .....	99	44	4	39			1 75	.....		68 25	17 06	1 75	39	56			
Driver .....	77	48¾	3	48%			2 00	.....		97 50	32 50	2 00	63	1 06			
Driver .....	77	48¾	3	43			2 00	.....		86 00	28 67	2 00	56	93			
Driver .....	77	48¾	3	41%			2 00	.....		83 50	27 83	2 00	54	91			
Driver .....	77	48¾	3	47%			1 35	.....		63 80	21 26	1 35	61	69			
Driver .....	74	32	3	31½			1 75	.....		51 70	18 23	1 75	42	61			
Driver .....	74	29	3	32¾			1 50	.....		49 10	16 36	1 50	44	55			
Driver .....	74	32	3	35½			1 25	.....		44 10	14 70	1 25	48	49			
Driver .....	74	29	3	23½			1 75	.....		41 10	13 70	1 75	32	46			
Driver .....	77	49	3	33			1 25	1 15		38 80	12 93	1 18	43	42			
Driver .....	52	28½	2	26½			2 00	.....		52 50	26 25	2 00	50	86			
Driver .....	52	35	2	45			1 15	.....		51 75	25 87	1 15	87	85			
Driver .....	52	35	2	31%			1 65	.....		51 60	25 80	1 65	60	83			
Driver .....	51	38	2	25½			2 00	.....		51 00	25 50	2 00	50	83			
Driver .....	51	38	2	25½			2 00	.....		50 50	25 25	2 00	50	83			
Driver .....	52	42	2	28%			1 75	.....		56 30	25 15	1 75	55	82			
Driver .....	51	38	2	24¾			2 00	.....		49 50	24 75	2 00	49	81			
Driver .....	52	35	2	25%			1 75	.....		45 00	22 50	1 75	50	74			
Driver .....	51	38	2	22			1 75	.....		38 50	19 25	1 75	43	63			
Driver .....	52	37	2	16%			1 75	.....		28 85	14 42	1 75	32	47			
Driver .....	52	35	2	31%			90	.....		28 60	14 30	90	61	47			
Driver .....	52	42	2	15			1 75	.....		26 25	13 12	1 75	29	43			
Driver .....	50	27	2	12%			1 75	.....		21 85	10 92	1 75	25	36			
Driver .....	27	15	1	16			2 00	.....		32 00	32 00	2 00	59	1 30			
Driver .....	27	15	1	12%			2 00	.....		25 50	25 50	2 00	47	82			
Driver .....	26	9	1	10%			2 00	.....		21 00	21 00	2 00	40	70			
Driver .....	27	22	1	10%			1 75	.....		18 35	18 35	1 75	39	59			
Driver .....	26	9	1	10%			1 50	.....		16 15	16 15	1 50	41	54			
Driver .....	26	18	1	12%			1 30	.....		15 90	15 90	1 30	47	41			
Driver .....	26	9	1	8%			1 75	.....		14 90	14 90	1 75	52	50			
Driver .....	26	9	1	8%			1 75	.....		14 90	14 90	1 75	52	50			
Driver .....	25	12	1	8%			1 75	.....		14 45	14 45	1 75	33	46			
Driver .....	26	10½	1	8			1 75	.....		14 00	14 00	1 75	31	45			
Driver .....	26	9	1	8			1 75	.....		14 00	14 00	1 75	33	44			
Driver .....	27	15	1	7%			1 75	.....		13 10	13 10	1 75	28	42			

Table XVI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.					
Driver .....	26	18	1	7	.....	\$1 65	.....	.....	\$11 55	\$11 55	\$1 65	27	\$0 38	
Driver .....	25	15	1	8 $\frac{3}{4}$	.....	1 15	.....	.....	10 05	10 05	1 15	35	33	
Driver .....	25	12	1	10 $\frac{1}{4}$	.....	90	.....	.....	9 20	9 20	90	41	30	
Driver .....	26	9	1	5	.....	1 75	.....	.....	8 75	8 75	1 75	19	29	
Helper .....	258	153 $\frac{3}{4}$	10	260	.....	1 65	\$1 50	.....	428 21	42 82	1 65	100	1 40	
Helper .....	74	29	3	76	.....	1 65	.....	.....	125 40	41 80	1 65	101	1 41	
Dumper .....	177	90	7	196	.....	1 75	.....	.....	342 95	48 99	1 75	110	1 62	
Dumper .....	129	83 $\frac{3}{4}$	5	149 $\frac{1}{2}$	.....	1 75	.....	.....	261 60	52 32	1 75	116	1 71	
Laborer, top .....	306	173 $\frac{3}{4}$	12	193 $\frac{3}{4}$	.....	3 64	1 50	.....	305 25	25 44	1 58	63	84	
Laborer, top .....	203	116	8	184 $\frac{1}{2}$	.....	1 65	.....	.....	304 35	38 04	1 65	91	1 25	
Laborer, top .....	202	110	8	134 $\frac{1}{2}$	.....	1 50	.....	.....	245 10	25 64	1 50	67	85	
Laborer, top .....	125	53	5	99 $\frac{1}{2}$	.....	1 65	1 50	.....	161 45	32 29	1 62	79	1 07	
Laborer, top .....	125	73 $\frac{3}{4}$	5	78 $\frac{3}{4}$	.....	1 50	.....	.....	118 10	23 62	1 50	63	78	
Laborer, top .....	99	51 $\frac{1}{2}$	4	52 $\frac{3}{4}$	.....	1 50	.....	.....	79 15	19 79	1 50	53	66	
Laborer, top .....	79	57	3	56 $\frac{1}{2}$	.....	1 75	1 50	.....	88 50	29 50	1 56	72	96	
Laborer, top .....	77	49	3	51	.....	1 50	.....	.....	76 45	25 48	1 50	66	83	
Laborer, top .....	74	29	3	35 $\frac{1}{2}$	.....	1 65	1 50	.....	55 85	18 62	1 58	47	63	
Laborer, top .....	52	28 $\frac{3}{4}$	2	43 $\frac{3}{4}$	.....	1 75	.....	.....	76 15	38 07	1 75	84	1 25	
Laborer, top .....	51	38	2	33 $\frac{3}{4}$	.....	1 50	.....	.....	49 85	24 92	1 50	65	81	
Laborer, top .....	51	16 $\frac{1}{2}$	2	19 $\frac{1}{2}$	.....	1 50	.....	.....	29 60	14 80	1 50	38	48	
Laborer, top .....	26	10 $\frac{1}{4}$	1	7 $\frac{1}{2}$	.....	1 50	.....	.....	11 25	11 25	1 50	29	36	
Laborer, top .....	25	15	1	7 $\frac{1}{4}$	.....	1 50	.....	.....	10 90	10 90	1 50	28	36	
Mule-tender .....	306	173 $\frac{3}{4}$	12	365	\$50 00	.....	.....	.....	600 00	50 00	1 64	119	1 64	
Mule-tender .....	202	110	8	238	.....	90	.....	.....	214 20	26 77	90	118	88	
Mule-tender .....	77	48 $\frac{3}{4}$	3	81	.....	85	.....	.....	68 00	22 66	85	105	74	
Trapper .....	306	173 $\frac{3}{4}$	12	197 $\frac{3}{4}$	.....	1 00	90	.....	185 80	15 48	94	64	51	
Trapper .....	306	173 $\frac{3}{4}$	12	186	.....	90	.....	.....	167 30	13 94	90	61	46	
Trapper .....	306	173 $\frac{3}{4}$	12	185 $\frac{3}{4}$	.....	90	.....	.....	167 10	13 92	90	61	46	
Trapper .....	306	173 $\frac{3}{4}$	12	185 $\frac{3}{4}$	.....	90	.....	.....	167 10	13 92	90	61	46	
Trapper .....	306	173 $\frac{3}{4}$	12	179 $\frac{1}{2}$	.....	90	.....	.....	161 50	13 46	90	59	44	
Trapper .....	306	173 $\frac{3}{4}$	12	174 $\frac{1}{2}$	.....	90	.....	.....	157 20	13 10	90	57	43	
Trapper .....	229	125	9	133	.....	90	.....	.....	119 65	13 29	90	51	44	
Trapper .....	227	116 $\frac{1}{2}$	9	114 $\frac{1}{2}$	.....	90	.....	.....	103 20	11 47	90	51	38	
Trapper .....	206	132 $\frac{1}{2}$	8	140	.....	90	.....	.....	125 95	15 74	90	68	51	
Trapper .....	202	110	8	120 $\frac{1}{2}$	.....	90	.....	.....	108 40	13 55	90	59	45	
Trapper .....	281	120 $\frac{1}{2}$	7	127 $\frac{1}{2}$	.....	90	.....	.....	114 70	16 39	90	45	54	
Trapper .....	104	63 $\frac{3}{4}$	4	52 $\frac{3}{4}$	.....	90	.....	.....	47 40	11 85	90	50	38	
Trapper .....	100	41	4	45 $\frac{3}{4}$	.....	90	.....	.....	41 20	10 30	90	46	34	
Trapper .....	100	41	4	37 $\frac{1}{2}$	.....	90	.....	.....	33 50	8 37	90	33	28	
Trapper .....	77	48 $\frac{1}{2}$	3	47 $\frac{1}{2}$	.....	90	.....	.....	42 70	14 23	90	62	46	
Trapper .....	51	16 $\frac{1}{2}$	2	18 $\frac{3}{4}$	.....	90	.....	.....	16 85	8 42	90	37	28	
Trapper .....	52	28 $\frac{3}{4}$	2	17 $\frac{1}{2}$	.....	90	.....	.....	15 95	7 97	90	34	26	
Trapper .....	26	9	1	4 $\frac{1}{2}$	.....	90	.....	.....	4 05	4 05	90	17	13	
Oiler, boy .....	306	173 $\frac{3}{4}$	12	185 $\frac{3}{4}$	.....	1 00	90	.....	169 10	14 09	90	61	46	
Oiler, boy .....	306	173 $\frac{3}{4}$	12	178 $\frac{3}{4}$	.....	1 00	90	.....	166 65	13 89	93	58	45	
Pusher, boy .....	104	63 $\frac{3}{4}$	4	86	.....	1 00	80	.....	80 00	20 00	93	33	65	
Pusher, boy .....	52	42	2	29 $\frac{3}{4}$	.....	1 00	.....	.....	29 75	14 87	1 00	57	49	
Engine, bottom .....	52	28 $\frac{3}{4}$	2	35 $\frac{1}{4}$	.....	1 75	.....	.....	62 10	31 05	1 75	68	1 02	

## RECAPITULATION—Establishment VI.

## MINERS, PAID BY THE TON.

No. OF MEN.	No. of months on the pay- roll.	Gross earnings.	Deduc- tions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
207...	12 Months....	\$93,885 02	\$5,044 76	\$88,840 26	\$429 18	\$35 76	49.8	\$2 80	\$1 17
28...	11 ".....	10,642 57	616 41	10,026 16	358 08	32 55	50	2 56	1 07
18...	10 ".....	6,437 25	358 53	6,078 72	337 71	33 77	50.7	2 62	1 11
15...	9 ".....	4,658 96	263 88	4,395 08	293 01	32 55	48.3	2 61	1 06
29...	8 ".....	8,080 19	446 70	7,633 40	263 22	32 90	49.6	2 65	1 08
39...	7 ".....	9,139 81	520 33	8,619 48	221 01	31 57	47.5	2 47	1 04
44...	6 ".....	8,867 61	509 58	8,358 03	189 95	31 66	48.6	2 58	1 03
39...	5 ".....	6,328 09	358 31	5,969 78	153 07	30 62	45.7	2 52	1 00
48...	4 ".....	5,993 73	349 31	5,644 42	117 59	29 39	45.4	2 52	96
30...	3 ".....	2,993 06	169 89	2,824 07	94 13	31 38	46.2	2 55	97
37...	2 ".....	2,335 24	136 32	2,198 92	59 43	29 71	42.2	2 74	97
55...	1 ".....	1,456 35	89 47	1,366 88	24 85	24 85	39.6	2 43	79
589...	.....	\$160,819 69	\$8,863 49	\$151,955 20	.....	\$33 90	49.2	2 72	\$1 12

## OTHER EMPLOYÉES, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.  Days.	Net earnings.	AVERAGES.			
				Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Pit-boss.....	1	12 mos.	\$1,080 00	\$90 00	100	\$3 50	\$2 96
Engineer.....	1	12 mos.	720 00	60 00	100	2 35	1 97
Engineer.....	1	12 mos.	600 00	50 00	100	1 96	1 65
Firemen.....	4	1,006½	1,486 90	40 19	100	1 34	1 25
Blacksmith.....	1	335¼	754 25	62 84	109	2 25	2 06
Carpenters.....	2	324¾	730 45	43 84	76	2 25	1 43
Weighman.....	1	12 mos.	720 00	60 00	100	2 40	1 97
Night watchman.....	1	288	457 20	45 72	100	1 58	1 50
Roadmen.....	16	3,074¾	6,499 20	45 76	83	2 11	1 44
Pumpers.....	3	731	1,565 10	62 40	100	2 17	2 17
Water-bailers.....	14	3,996	6,822 10	47 02	100	1 71	1 54
Laborers, below.....	61	5,727¾	10,018 65	31 45	72	1 75	1 03
Water-shaft men.....	15	1,497¾	2,910 45	35 64	71	1 96	1 19
Pickers.....	5	708½	918 70	21 26	72	1 30	70
Cagers.....	2	404¾	981 70	38 82	67	2 30	1 27
Drivers.....	79	5,424¾	9,198 40	22 50	51	1 84	73
Helpers.....	2	386	553 61	42 31	100	1 65	1 40
Dumpers.....	2	345½	604 55	50 65	100	1 75	1 66
Laborers, top.....	14	999¾	1,571 95	24 17	60	1 57	80
Mule-boss.....	1	12 mos.	600 00	50 00	100	1 64	1 64
Mule-tenders, boys.....	2	319	282 20	24 71	100	87	81
Trappers, boys.....	18	1,969	1,779 55	12 19	51	90	40
Oilers, boys.....	2	364½	335 75	13 99	59	90	45
Pushers, boys.....	2	115¾	109 75	17 43	70	1 00	57
Engine man.....	1	35½	62 10	31 05	68	1 75	1 02
	252	29,773¾	\$51,322 56				

TABLE XVI.—Establishment VI.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Under \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'nts	.....	6	35	72	45	26	13	6	3	.....	1	.....	.....	207
11 "	.....	.....	8	13	5	1	1	.....	.....	.....	.....	.....	.....	28
10 "	.....	.....	4	8	5	1	.....	.....	.....	.....	.....	.....	.....	18
9 "	.....	2	4	5	3	1	.....	.....	.....	.....	.....	.....	.....	15
8 "	.....	4	9	3	8	3	1	1	.....	.....	.....	.....	.....	29
7 "	.....	1	4	15	9	6	3	1	.....	.....	.....	.....	.....	39
6 "	.....	1	10	9	17	4	1	1	1	.....	.....	.....	.....	44
5 "	.....	2	6	12	10	6	2	.....	1	.....	.....	.....	.....	39
4 "	.....	3	13	13	10	3	3	3	.....	.....	.....	.....	.....	48
3 "	.....	3	1	8	12	3	2	.....	1	.....	.....	.....	.....	30
2 "	.....	4	10	6	8	5	1	3	.....	.....	.....	.....	.....	37
1 "	.....	12	19	14	9	1	.....	.....	.....	.....	.....	.....	.....	55
Totals.	*26	75	137	176	94	44	23	10	3	.....	1	.....	.....	†589

\*Average earnings \$17.78 for an average of 9.14 days' work per month, each.

†Average earnings of all men \$33.90 per month.

Number who earned more than the average, 221, or 37 per cent. of the whole.

Number who earned less than the average, 363, or 63 per cent. of the whole.

**TABLE XVII.--Summaries of Results Shown by Monthly Pay-rolls.****ESTABLISHMENT VII.—Coal Mine in Will County.**

CONDITIONS:—Depth of shaft, 97 feet; thickness of coal, 3 feet; working places, very wet; system of working, long-wall; mining done by hand; price of mining, 95 cents a ton for screened coal; screen bars  $\frac{1}{4}$  of an inch apart; check-weighman at the scale; amount of "brushing" required, 24 inches.

**COAL MINERS, PAID BY THE TON.**

MONTHS.	Possible working time, om't- ting Sundays and holidays.		Actual running time of the mine.		Whole number of men on the pay-roll during the month.		Whole number of days' work performed during the month.		Whole number of tons of coal mined and delivered.		Net earnings of all the men employed during the month.		Average net earnings per man per month.		Average net earnings per man per day.		Average number of tons mined per man per day.		Average number of days' work performed per man.		Number of men required to produce same tonnage if at work full running time.	
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.											
May .....	26	19	484	8,335	16,957	\$16,287 10	\$33 66	\$1 95	2.03	17.2	439											
June .....	26	12	478	5,336	11,311	10,884 60	22 77	2 02	2.10	11.3	449											
July .....	25	5	436	1,877	2,303	2,214 45	5 08	1 13	1.23	4.3	375											
August .....	27	25	502	10,979	18,911	18,170 55	36 20	1 65	1.72	21.9	439											
September .....	25	24	512	10,853	19,763	19,197 15	37 40	1 77	1.82	21.2	452											
October .....	27	24	542	11,616	21,279	20,445 35	37 72	1 76	1.83	21.5	484											
November .....	25	23	549	11,370	18,354	17,693 70	32 23	1 56	1.61	20.7	494											
December .....	25	23	550	11,459	17,721	17,101 55	31 09	1 49	1.55	20.8	498											
January .....	26	17	540	8,524	14,246	13,666 85	24 94	1 60	1.67	15.6	502											
February .....	23	17	535	8,423	15,669	15,041 40	29 98	1 79	1.86	15.7	490											
March .....	25	16	648	8,918	14,410	13,781 00	21 27	1 55	1.62	13.8	557											
April .....	26	19	623	11,092	19,608	18,757 45	30 11	1 69	1.76	17.8	584											
The year .....	306	224	940	108,836	190,535	\$183,241 15	\$28 60	\$1 68	1.75	17	486											
Monthly Avs...	25.5	18.7	533	9,070	15,878	15,270 10	28 60	1 68	29.78	17	486											

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	19	78	1,499 $\frac{1}{2}$	.....	\$2,552 25	\$32 72	\$1 70	.....	19.2	.....
June .....	26	12	76	1,258 $\frac{1}{2}$	.....	2,179 30	28 68	1 73	.....	16.6	.....
July .....	25	5	86	1,486	.....	2,686 70	31 28	1 81	.....	17.3	.....
August .....	27	25	88	2,011	.....	3,441 95	39 17	1 71	.....	22.9	.....
September .....	25	24	94	1,988 $\frac{1}{2}$	.....	3,447 20	36 67	1 73	.....	21.1	.....
October .....	27	24	100	2,214 $\frac{1}{2}$	.....	3,731 70	37 32	1 68	.....	22.2	.....
November .....	25	23	93	1,891 $\frac{1}{2}$	.....	3,170 95	34 10	1 68	.....	20.3	.....
December .....	25	23	95	1,910	.....	3,182 75	33 50	1 67	.....	20.1	.....
January .....	25	17	90	1,617 $\frac{1}{2}$	.....	2,800 00	31 11	1 73	.....	18	.....
February .....	23	17	87	1,474	.....	2,597 90	29 86	1 76	.....	16.9	.....
March .....	25	16	88	1,372	.....	2,392 05	27 18	1 74	.....	15.6	.....
April .....	26	19	76	1,399 $\frac{1}{2}$	.....	2,370 05	31 18	1 69	.....	18.4	.....
The year .....	306	224	151	20,122 $\frac{1}{2}$	.....	\$31,552 80	\$32 88	\$1 72	29.78	19.1	.....
Monthly Avs...	25.5	18.7	88	1,677	.....	2,879 40	32 88	1 72	.....	19.1	.....
Grand totals...	306	224	*1,091	128,958 $\frac{1}{2}$	190,535	\$217,793 95	.....	.....	29.78	.....	.....
General Avs...	25.5	18.7	621	10,747	15,878	18,149 50	\$29 23	\$1 69	29.78	17.3	.....

\* In addition to these, 104 transient miners and miners' sons worked 7,381 days during the year, mining 8,291 tons and earning \$7,773; and 89 laborers worked 2,205 days and earned \$3,520.



TABLE XVIII.—Individual Earnings and Working Time.

## ESTABLISHMENT VII.—Coal Mine in Will County.

Conditions of employment given at the head of preceding table.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner	306	224	12	224	\$594 45	\$3 70	\$590 75	\$49 33	\$2 64	73	100	\$1 62
Miner	306	224	12	207	573 55	3 40	570 15	47 52	2 75	68	92	1 56
Miner	306	224	12	215	570 30	4 40	565 90	47 16	2 63	70	96	1 55
Miner	306	224	12	220	547 00	4 00	543 00	45 25	2 73	73	99	1 49
Miner	306	224	12	209	528 30	3 45	524 85	43 74	2 51	68	93	1 44
Miner	306	224	12	222	528 25	4 20	524 05	43 67	2 36	73	99	1 44
Miner	306	224	12	219	526 95	3 00	523 95	43 66	2 39	72	98	1 44
Miner	306	224	12	218	521 80	3 00	518 80	43 23	2 38	71	97	1 42
Miner	306	224	12	220	518 80	4 00	514 80	42 90	2 34	71	98	1 41
Miner	306	224	12	221	515 35	2 75	512 60	42 72	2 29	73	100	1 41
Miner	306	224	12	224	515 35	3 00	512 35	42 70	2 29	73	100	1 41
Miner	306	224	12	224	514 35	3 45	510 90	42 58	2 28	73	100	1 41
Miner	306	224	12	224	510 55	3 85	506 70	42 23	2 26	73	100	1 39
Miner	306	224	12	222	488 30	3 80	484 50	40 38	2 18	73	99	1 33
Miner	306	224	12	222	486 95	3 00	483 95	40 33	2 18	73	99	1 33
Miner	306	224	12	192	487 20	3 70	483 50	40 29	2 52	63	86	1 32
Miner	306	224	12	222	481 95	3 00	481 95	40 16	2 17	73	99	1 32
Miner	306	224	12	220	483 15	3 65	479 50	39 96	2 18	72	98	1 31
Miner	306	224	12	223	480 30	2 65	477 65	39 80	2 14	73	99	1 31
Miner	306	224	12	223	469 40	2 75	466 65	38 89	2 09	73	99	1 28
Miner	306	224	12	223	469 40	2 75	466 65	38 89	2 09	73	99	1 28
Miner	306	224	12	221	469 60	3 00	466 60	38 88	2 11	72	98	1 28
Miner	306	224	12	220	467 55	3 00	464 55	38 71	2 11	72	98	1 27
Miner	306	224	12	219	467 55	3 00	464 50	38 71	2 12	72	98	1 27
Miner	306	224	12	220	466 70	3 30	463 40	38 62	2 11	72	98	1 27
Miner	306	224	12	223	464 20	3 00	461 20	38 43	2 07	73	99	1 26
Miner	306	224	12	213	464 25	3 40	460 85	38 40	2 16	70	95	1 26
Miner	306	224	12	223	461 00	3 00	458 00	38 17	2 05	73	99	1 25
Miner	306	224	12	222	460 05	2 75	457 30	38 11	2 06	73	99	1 25
Miner	306	224	12	222	457 75	3 00	454 75	37 90	2 05	73	99	1 25
Miner	306	224	12	223	454 70	2 75	451 95	37 63	2 03	73	99	1 23
Miner	306	224	12	222	451 80	2 75	449 05	37 42	2 02	73	99	1 23
Miner	306	224	12	222	452 00	3 00	449 00	37 42	2 02	73	99	1 23
Miner	306	224	12	222	452 00	3 00	449 00	37 42	2 02	73	99	1 23
Miner	306	224	12	222	452 00	3 00	449 00	37 42	2 02	73	99	1 23
Miner	306	224	12	223	449 00	3 00	446 00	37 17	2 00	73	99	1 22
Miner	306	224	12	216	448 20	3 00	445 20	37 10	2 06	71	96	1 22
Miner	306	224	12	224	445 90	3 00	442 90	36 91	1 98	73	100	1 21
Miner	306	224	12	223	443 85	2 75	441 10	36 76	1 98	73	99	1 21
Miner	306	224	12	213	442 50	2 75	439 75	36 65	1 98	70	95	1 20
Miner	306	224	12	222	439 55	2 75	436 80	36 40	1 97	73	99	1 20
Miner	306	224	12	223	434 40	2 75	431 65	35 97	1 93	73	99	1 18
Miner	306	224	12	223	433 40	3 00	430 40	35 87	1 94	75	99	1 18
Miner	306	224	12	222	432 25	3 00	429 25	35 77	1 93	73	99	1 18
Miner	306	224	12	217	430 90	2 75	428 15	35 68	1 97	71	97	1 17

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	306	224	12	224	\$425 00	\$3 00	\$425 00	\$35 42	\$1 90	73	100	\$1 17
Miner.....	306	224	12	220	425 35	3 00	422 35	35 20	1 92	72	98	1 16
Miner.....	306	224	12	208	424 75	42 95	421 80	35 15	1 93	68	93	1 16
Miner.....	306	224	12	220	422 05	3 00	419 05	34 92	1 90	72	98	1 15
Miner.....	306	224	12	221	421 65	3 00	418 65	34 89	1 89	72	99	1 15
Miner.....	306	224	12	223	421 05	3 05	418 00	34 83	1 87	73	99	1 15
Miner.....	306	224	12	201	419 75	2 75	417 00	34 75	2 07	66	90	1 14
Miner.....	306	224	12	213	417 20	3 00	414 20	34 51	1 94	70	95	1 13
Miner.....	306	224	12	218	416 30	3 00	413 30	34 44	1 90	71	97	1 13
Miner.....	306	224	12	222	416 10	3 00	413 10	34 43	1 86	73	99	1 13
Miner.....	306	224	12	222	416 10	3 00	413 10	34 43	1 86	73	99	1 13
Miner.....	306	224	12	224	414 10	3 00	411 10	34 26	1 84	73	100	1 13
Miner.....	306	224	12	222	414 00	3 00	411 00	34 25	1 85	73	99	1 13
Miner.....	306	224	12	222	413 55	2 85	410 70	34 23	1 85	73	99	1 13
Miner.....	306	224	12	220	412 80	3 00	409 80	34 15	1 41	72	98	1 12
Miner.....	306	224	12	216	411 45	2 75	408 70	34 06	1 89	71	96	1 12
Miner.....	306	224	12	222	411 00	3 00	408 00	34 00	1 84	73	99	1 12
Miner.....	306	224	12	213	409 75	3 00	406 75	33 90	1 91	70	95	1 11
Miner.....	306	224	12	216	407 70	42 75	404 95	33 75	1 87	71	96	1 11
Miner.....	306	224	12	210	407 35	42 50	404 85	33 74	1 93	69	94	1 11
Miner.....	306	224	12	224	406 15	3 00	403 15	33 60	1 80	73	100	1 10
Miner.....	306	224	12	219	405 80	2 75	403 05	33 59	1 84	72	98	1 10
Miner.....	306	224	12	208	404 70	2 25	402 45	33 54	1 93	68	93	1 10
Miner.....	306	224	12	224	405 20	3 00	402 20	33 52	1 80	75	100	1 10
Miner.....	306	224	12	223	404 25	2 75	401 50	33 46	1 80	73	99	1 10
Miner.....	306	224	12	223	404 25	2 75	401 50	33 46	1 80	73	99	1 10
Miner.....	306	224	12	222	405 65	3 00	400 65	33 39	1 80	73	99	1 10
Miner.....	306	224	12	219	402 15	3 00	399 15	33 26	1 82	72	98	1 09
Miner.....	306	224	12	210	401 75	2 75	399 00	33 25	1 90	69	94	1 09
Miner.....	306	224	12	215	402 00	3 00	399 00	33 25	1 86	70	96	1 09
Miner.....	306	224	12	217	400 00	3 00	399 00	33 25	1 84	71	97	1 09
Miner.....	306	224	12	206	398 55	3 00	395 55	32 96	1 92	67	92	1 08
Miner.....	306	224	12	211	397 90	3 00	394 90	32 91	1 87	69	94	1 08
Miner.....	306	224	12	216	396 95	3 00	393 95	32 83	1 82	71	96	1 08
Miner.....	306	224	12	221	396 35	3 00	393 35	32 78	1 78	72	99	1 08
Miner.....	306	224	12	223	396 15	3 00	393 15	32 76	1 76	73	99	1 08
Miner.....	306	224	12	223	396 15	3 00	393 15	32 76	1 76	73	99	1 08
Miner.....	306	224	12	223	396 10	3 00	393 10	32 76	1 76	73	99	1 08
Miner.....	306	224	12	200	395 05	2 85	392 20	32 68	1 96	65	89	1 07
Miner.....	306	224	12	188	394 25	3 00	391 25	32 60	2 08	61	84	1 07
Miner.....	306	224	12	209	392 10	2 75	389 35	32 44	1 86	68	93	1 07
Miner.....	306	224	12	221	391 60	3 00	388 60	32 38	1 75	72	99	1 06
Miner.....	306	224	12	194	390 60	3 00	387 60	32 30	1 97	63	87	1 06
Miner.....	306	224	12	217	389 95	2 50	387 45	32 29	1 79	71	97	1 06
Miner.....	306	224	12	220	390 40	3 00	387 40	32 28	1 76	72	98	1 06
Miner.....	306	224	12	220	390 40	3 00	387 40	32 28	1 76	72	98	1 06
Miner.....	306	224	12	204	389 30	2 75	386 55	32 21	1 89	67	91	1 06
Miner.....	306	224	12	220	387 50	3 00	384 50	32 04	1 75	72	98	1 05
Miner.....	306	224	12	216	387 10	3 00	384 10	32 01	1 78	71	96	1 05
Miner.....	306	224	12	215	386 95	3 00	383 95	32 00	1 79	70	96	1 05

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	306	224	12	220	\$385 65	\$3 00	\$382 65	\$31 89	\$1 74	72	98	\$1 05
Miner .....	306	224	12	214	384 85	2 85	382 00	31 83	1 79	70	96	1 05
Miner .....	306	224	12	205	384 35	2 50	381 85	31 82	1 86	67	92	1 05
Miner .....	306	224	12	210	382 75	3 00	379 75	31 65	1 81	69	94	1 04
Miner .....	306	224	12	212	382 70	3 00	379 70	31 64	1 79	69	95	1 04
Miner .....	306	224	12	223	382 10	2 75	379 35	31 61	1 70	73	99	1 04
Miner .....	306	224	12	223	382 10	2 75	379 35	31 61	1 70	73	99	1 04
Miner .....	306	224	12	207	381 80	2 75	379 05	31 59	1 83	68	92	1 04
Miner .....	306	224	12	212	381 60	2 75	378 85	31 57	1 74	69	95	1 04
Miner .....	306	224	12	207	381 35	2 75	378 60	31 55	1 83	68	92	1 04
Miner .....	306	224	12	222	381 15	3 00	378 15	31 51	1 70	73	99	1 04
Miner .....	306	224	12	222	381 15	3 00	378 15	31 51	1 70	73	99	1 04
Miner .....	306	224	12	220	380 80	3 00	377 80	31 48	1 72	72	98	1 04
Miner .....	306	224	12	215	380 65	3 00	377 65	31 47	1 76	70	96	1 03
Miner .....	306	224	12	206	379 85	2 75	377 10	31 43	1 83	67	96	1 03
Miner .....	306	224	12	220	379 70	2 75	376 95	31 41	1 71	72	98	1 03
Miner .....	306	224	12	220	379 65	3 00	376 65	31 38	1 71	72	98	1 03
Miner .....	306	224	12	223	379 35	2 75	376 60	31 38	1 69	73	99	1 03
Miner .....	306	224	12	223	379 35	2 75	376 60	31 38	1 69	73	99	1 03
Miner .....	306	224	12	220	379 15	2 75	376 40	31 37	1 71	72	98	1 03
Miner .....	306	224	12	220	379 15	3 00	376 15	31 35	1 71	72	98	1 03
Miner .....	306	224	12	220	379 15	3 00	376 15	31 35	1 71	72	98	1 03
Miner .....	306	224	12	181	377 70	2 80	374 90	31 24	2 04	60	82	1 03
Miner .....	306	224	12	200	377 30	2 80	374 50	31 21	1 87	65	89	1 03
Miner .....	306	224	12	219	374 50	3 00	371 50	30 96	1 70	72	98	1 02
Miner .....	306	224	12	219	373 40	2 75	370 65	30 88	1 69	72	98	1 02
Miner .....	306	224	12	215	373 35	3 00	370 35	30 86	1 72	70	96	1 01
Miner .....	306	224	12	222	373 00	3 00	370 00	30 83	1 67	73	99	1 01
Miner .....	306	224	12	222	372 90	3 00	369 90	30 83	1 67	73	99	1 01
Miner .....	306	224	12	206	372 25	3 00	369 25	30 77	1 79	67	92	1 01
Miner .....	306	224	12	216	371 45	2 75	368 70	30 73	1 71	71	96	1 01
Miner .....	306	224	12	222	371 40	3 00	368 40	30 70	1 66	73	99	1 01
Miner .....	306	224	12	222	371 30	3 00	368 30	30 69	1 66	73	99	1 01
Miner .....	306	224	12	222	371 20	3 00	368 20	30 68	1 66	73	99	1 01
Miner .....	306	224	12	221	369 20	3 00	366 20	30 52	1 66	72	99	1 00
Miner .....	306	224	12	210	368 10	2 75	365 35	30 45	1 74	69	94	1 00
Miner .....	306	224	12	216	368 10	2 75	365 35	30 45	1 69	71	96	1 00
Miner .....	306	224	12	212	367 90	3 00	364 90	30 41	1 72	69	95	1 00
Miner .....	306	224	12	214	367 60	3 00	364 60	30 38	1 70	70	96	1 00
Miner .....	306	224	12	222	367 55	3 00	364 55	30 38	1 64	73	99	1 00
Miner .....	306	224	12	209	367 20	2 75	364 45	30 37	1 75	68	93	1 00
Miner .....	306	224	12	218	366 55	2 75	363 80	30 32	1 67	71	97	1 00
Miner .....	306	224	12	199	366 05	2 50	363 55	30 30	1 83	65	89	1 00
Miner .....	306	224	12	214	365 95	3 00	362 95	30 25	1 69	70	96	99
Miner .....	306	224	12	218	365 55	2 75	362 80	30 23	1 66	71	97	99
Miner .....	306	224	12	207	365 60	3 00	362 60	30 22	1 75	68	92	99
Miner .....	306	224	12	223	365 20	3 00	362 20	30 18	1 62	73	99	99
Miner .....	306	224	12	223	364 70	2 75	361 95	30 16	1 62	73	99	99
Miner .....	306	224	12	224	364 50	2 75	361 75	30 15	1 61	73	100	99
Miner .....	306	224	12	224	363 60	3 00	360 60	30 05	1 61	73	100	99

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner.....	306	224	12	218	\$363 30	\$3 00	\$360 30	\$30 03	\$1 65	71	97	\$9 99	
Miner.....	306	224	12	209	362 45	2 75	359 70	29 98	1 72	68	93	99	
Miner.....	306	224	12	211	362 00	3 00	359 00	29 92	1 70	69	94	98	
Miner.....	306	224	12	213	361 65	2 75	358 90	29 91	1 68	70	95	98	
Miner.....	306	224	12	206	360 85	2 75	358 10	29 84	1 74	67	92	98	
Miner.....	306	224	12	216	359 15	3 00	356 15	29 68	1 65	71	96	98	
Miner.....	306	224	12	2 3	358 25	3 00	355 25	29 60	1 67	70	95	97	
Miner.....	306	224	12	215	358 20	3 00	355 20	29 60	1 70	70	96	97	
Miner.....	306	224	12	201	356 85	3 15	353 70	29 48	1 76	66	90	97	
Miner.....	306	224	12	218	356 05	3 00	353 05	29 42	1 62	71	97	97	
Miner.....	306	224	12	195	354 35	2 75	351 60	29 30	1 80	64	87	96	
Miner.....	306	224	12	214	354 55	3 00	351 55	29 30	1 64	70	96	96	
Miner.....	306	224	12	196	354 45	3 00	351 45	29 29	1 79	64	88	96	
Miner.....	306	224	12	210	353 80	3 00	350 80	29 23	1 67	69	94	96	
Miner.....	306	224	12	212	353 40	2 75	350 65	29 22	1 65	69	95	96	
Miner.....	306	224	12	213	353 20	3 00	350 20	29 18	1 64	70	95	96	
Miner.....	306	224	12	211	351 75	2 75	349 00	29 08	1 65	69	94	95	
Miner.....	306	224	12	204	351 70	2 75	348 95	29 08	1 71	67	91	95	
Miner.....	306	224	12	215	349 20	3 00	346 20	28 85	1 61	70	96	95	
Miner.....	306	224	12	209	346 55	2 75	343 80	28 65	1 64	68	93	94	
Miner.....	306	224	12	176	345 75	2 75	343 00	28 58	1 95	58	79	94	
Miner.....	306	224	12	204	345 25	2 75	342 50	28 58	1 68	67	91	94	
Miner.....	306	224	12	222	344 75	3 00	341 75	28 48	1 54	73	99	94	
Miner.....	306	224	12	218	344 25	2 75	341 50	28 46	1 57	71	97	94	
Miner.....	306	224	12	218	344 25	2 75	341 50	28 46	1 57	71	97	94	
Miner.....	306	224	12	211	343 90	3 00	340 90	28 41	1 61	69	94	93	
Miner.....	306	224	12	200	343 40	2 75	340 65	28 39	1 70	65	89	93	
Miner.....	306	224	12	205	343 05	3 00	340 05	28 35	1 66	67	92	93	
Miner.....	306	224	12	211	342 60	3 00	339 60	28 22	1 61	69	94	93	
Miner.....	306	224	12	218	342 30	3 00	339 30	28 19	1 56	71	97	93	
Miner.....	306	224	12	202	339 90	2 75	337 15	28 10	1 67	66	90	92	
Miner.....	306	224	12	220	339 65	2 75	336 90	28 07	1 53	72	98	92	
Miner.....	306	224	12	216	339 40	2 90	336 50	28 04	1 56	71	96	92	
Miner.....	306	224	12	205	337 45	2 85	334 60	27 88	1 63	67	92	92	
Miner.....	306	224	12	187	337 05	2 60	334 45	27 87	1 79	61	83	92	
Miner.....	306	224	12	216	337 35	3 00	334 35	27 86	1 55	71	96	92	
Miner.....	306	224	12	218	335 05	2 70	332 35	27 70	1 52	71	97	91	
Miner.....	306	224	12	217	333 85	2 75	331 10	27 59	1 53	71	97	91	
Miner.....	306	224	12	214	333 25	2 50	330 75	27 56	1 55	70	96	91	
Miner.....	306	224	12	214	333 25	3 00	330 25	27 52	1 54	70	96	90	
Miner.....	306	224	12	214	333 25	3 00	330 25	27 52	1 54	70	96	90	
Miner.....	306	224	12	205	332 95	3 00	331 95	27 50	1 61	67	92	90	
Miner.....	306	224	12	210	332 30	2 75	329 55	27 46	1 57	69	94	90	
Miner.....	306	224	12	203	332 00	2 50	329 50	27 46	1 61	66	91	90	
Miner.....	306	224	12	219	332 20	2 75	329 45	27 45	1 50	72	98	90	
Miner.....	306	224	12	213	332 25	3 00	329 25	27 44	1 55	70	95	90	
Miner.....	306	224	12	215	327 40	3 00	324 40	27 03	1 51	70	96	89	
Miner.....	306	224	12	205	325 80	2 50	324 40	27 03	1 58	67	92	89	
Miner.....	306	224	12	214	326 70	2 85	323 85	26 99	1 51	70	96	89	
Miner.....	306	224	12	220	326 55	3 00	323 55	26 88	1 47	72	98	89	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	306	224	12	211	\$324 80	\$2 80	\$322 00	\$26 83	\$1 53	69	94	\$0 88
Miner .....	306	224	12	219	324 85	3 00	321 85	26 82	1 47	72	98	88
Miner .....	306	224	12	211	324 80	3 00	321 80	26 82	1 53	69	94	88
Miner .....	306	224	12	211	324 80	3 00	321 80	26 82	1 53	69	94	88
Miner .....	306	224	12	211	321 90	2 50	319 40	26 62	1 51	69	94	87
Miner .....	306	224	12	214	321 80	2 75	319 05	26 59	1 49	70	96	87
Miner .....	306	224	12	208	321 85	3 00	318 85	26 57	1 53	63	93	87
Miner .....	306	224	12	218	321 35	2 75	318 60	26 55	1 46	71	97	87
Miner .....	306	224	12	218	321 35	2 75	318 60	26 55	1 46	71	97	87
Miner .....	306	224	12	211	319 60	2 75	316 85	26 40	1 50	69	94	87
Miner .....	306	224	12	195	319 20	2 75	316 45	26 37	1 62	65	90	87
Miner .....	306	224	12	209	319 35	3 00	318 35	26 36	1 51	68	98	87
Miner .....	306	224	12	201	318 60	3 00	315 60	26 30	1 57	66	90	86
Miner .....	306	224	12	203	318 35	2 75	315 60	26 30	1 55	66	91	86
Miner .....	306	224	12	210	317 65	3 00	314 65	26 22	1 50	69	94	86
Miner .....	306	224	12	208	316 65	2 75	313 90	26 16	1 51	69	94	86
Miner .....	306	224	12	200	315 00	2 75	312 25	26 02	1 56	65	89	86
Miner .....	306	224	12	211	314 60	2 75	311 85	25 99	1 48	69	94	85
Miner .....	306	224	12	197	313 05	3 00	310 05	25 84	1 57	64	88	85
Miner .....	306	224	12	216	312 70	2 75	309 95	25 83	1 43	71	96	85
Miner .....	306	224	12	215	310 50	2 75	307 75	25 65	1 43	70	96	84
Miner .....	306	224	12	210	309 70	3 00	306 70	25 56	1 46	69	94	84
Miner .....	306	224	12	168	308 65	2 50	306 15	25 51	1 82	55	75	84
Miner .....	306	224	12	193	308 30	2 75	305 55	25 46	1 58	63	86	84
Miner .....	306	224	12	215	307 95	2 75	305 20	25 43	1 42	70	96	84
Miner .....	306	224	12	212	306 90	2 75	304 15	25 35	1 91	69	95	83
Miner .....	306	224	12	208	303 95	2 50	301 45	25 12	1 45	68	93	83
Miner .....	306	224	12	168	301 90	2 50	299 40	24 95	1 78	55	75	82
Miner .....	306	224	12	197	300 00	2 50	297 50	24 79	1 51	64	88	81
Miner .....	306	224	12	200	300 00	2 50	297 50	24 79	1 49	65	89	81
Miner .....	306	224	12	202	298 25	3 00	295 25	24 60	1 46	66	90	81
Miner .....	306	224	12	194	295 45	2 75	292 70	24 39	1 51	63	87	80
Miner .....	306	224	12	186	294 60	2 50	292 10	24 36	1 57	61	85	80
Miner .....	306	224	12	205	292 80	2 75	290 05	24 17	1 41	67	92	79
Miner .....	306	224	12	205	292 80	3 00	289 80	24 15	1 41	67	92	79
Miner .....	306	224	12	205	292 80	3 00	289 80	24 15	1 41	67	92	79
Miner .....	306	224	12	186	291 70	2 70	289 00	24 08	1 55	61	83	79
Miner .....	306	224	12	172	290 05	2 75	287 30	23 94	1 50	63	86	79
Miner .....	306	224	12	168	289 75	2 50	287 25	23 94	1 71	55	75	79
Miner .....	306	224	12	202	289 55	2 75	286 80	23 90	1 41	66	90	79
Miner .....	306	224	12	212	288 30	2 75	285 55	23 79	1 35	69	95	78
Miner .....	306	224	12	183	287 90	2 50	285 40	23 78	1 56	60	82	78
Miner .....	306	224	12	184	287 95	2 75	285 20	23 77	1 55	60	82	78
Miner .....	306	224	12	215	288 15	3 00	285 15	23 76	1 33	70	96	78
Miner .....	306	224	12	207	287 40	2 60	284 80	23 73	1 38	68	92	78
Miner .....	306	224	12	185	287 45	2 75	284 70	23 72	1 54	60	83	78
Miner .....	306	224	12	180	285 15	2 75	282 40	23 63	1 55	59	80	77
Miner .....	306	224	12	190	282 25	2 75	279 50	23 29	1 47	62	85	77
Miner .....	306	224	12	210	281 70	3 00	278 70	23 24	1 33	69	94	76

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Am't.
Miner .....	306	224	12	176	\$280 30	\$2 50	\$277 80	\$23 15	\$1 58	58	79	\$0 76	
Miner .....	306	224	12	176	276 90	3 00	273 90	22 85	1 56	58	79	75	
Miner .....	306	224	12	189	274 35	2 75	271 60	22 63	1 44	62	84	74	
Miner .....	306	224	12	164	266 80	2 50	264 30	22 03	1 61	54	73	72	
Miner .....	306	224	12	196	258 30	2 50	255 80	21 32	1 31	64	87	70	
Miner .....	306	224	12	189	258 10	2 75	255 35	21 28	1 35	62	84	70	
Miner .....	306	224	12	207	256 85	3 00	253 85	21 15	1 23	68	92	70	
Miner .....	306	224	12	219	248 70	2 75	245 95	20 41	1 12	72	92	67	
Miner .....	306	224	12	185	244 45	2 75	241 70	20 14	1 31	60	83	66	
Miner .....	306	224	12	215	243 85	2 75	241 10	20 09	1 12	70	96	66	
Miner .....	306	224	12	198	242 75	2 55	240 20	20 02	1 21	65	88	66	
Miner .....	306	224	12	208	241 70	2 75	238 95	19 91	1 15	68	93	65	
Miner .....	306	224	12	173	240 70	2 75	237 95	19 83	1 37	57	77	65	
Miner .....	306	224	12	205	245 40	2 75	232 65	19 39	1 13	77	92	64	
Miner .....	306	224	12	216	234 30	2 50	231 80	19 32	1 07	71	96	64	
Miner .....	306	224	12	165	228 85	2 50	226 35	18 86	1 37	54	74	62	
Miner .....	306	224	12	165	211 10	2 50	208 60	17 38	1 26	54	74	57	
Miner .....	306	224	12	189	200 85	2 00	198 85	16 47	1 05	62	84	54	
Miner .....	306	224	12	186	199 25	2 25	197 00	16 50	1 06	61	83	54	
Miner .....	306	224	12	163	167 95	2 00	165 95	13 82	1 02	53	73	45	
Miner .....	281	201	11	191	455 30	3 55	451 75	41 07	2 37	68	95	1 35	
Miner .....	281	219	11	218	453 55	2 75	450 80	40 98	2 07	78	99	1 35	
Miner .....	281	219	11	201	443 35	2 75	440 60	40 05	2 19	72	92	1 32	
Miner .....	280	205	11	201	435 40	2 75	432 65	39 33	2 15	72	98	1 29	
Miner .....	280	207	11	183	433 70	3 50	430 20	39 11	2 35	65	88	1 29	
Miner .....	281	219	11	184	396 30	2 75	393 55	35 78	2 14	65	84	1 18	
Miner .....	280	205	11	203	390 45	2 75	387 70	35 25	1 91	72	99	1 16	
Miner .....	280	205	11	200	388 65	2 75	385 90	35 08	1 93	71	98	1 15	
Miner .....	280	205	11	197	380 55	2 75	377 80	34 35	1 92	70	96	1 13	
Miner .....	280	205	11	204	373 95	2 75	371 20	33 75	1 82	73	99	1 11	
Miner .....	280	205	11	197	373 40	2 75	370 65	33 70	1 88	70	96	1 11	
Miner .....	280	205	11	185	369 75	2 75	367 00	33 36	1 79	66	90	1 10	
Miner .....	280	205	11	201	368 75	2 75	366 00	33 27	1 82	72	98	1 10	
Miner .....	280	212	11	198	363 60	2 50	361 10	32 83	1 82	71	93	1 08	
Miner .....	281	219	11	203	358 50	2 75	355 75	32 34	1 75	72	93	1 07	
Miner .....	279	300	11	172	358 55	3 00	355 55	32 32	3 07	62	86	1 06	
Miner .....	280	205	11	203	356 45	2 75	353 70	32 15	1 74	72	99	1 06	
Miner .....	280	205	11	190	354 60	2 75	351 85	31 99	1 85	68	93	1 05	
Miner .....	280	205	11	201	350 60	2 75	347 85	31 62	1 73	72	98	1 04	
Miner .....	280	205	11	198	350 30	2 50	347 80	31 62	1 75	71	97	1 04	
Miner .....	280	205	11	190	346 90	2 75	344 15	31 29	1 81	68	93	1 03	
Miner .....	280	205	11	193	343 90	2 75	341 15	31 01	1 77	69	94	1 02	
Miner .....	281	208	11	193	343 40	2 50	340 90	30 99	1 76	69	93	1 02	
Miner .....	281	219	11	197	340 45	2 75	337 70	30 70	1 71	70	90	1 01	
Miner .....	281	209	11	184	340 35	2 75	337 60	30 69	1 83	65	92	1 01	
Miner .....	281	219	11	177	338 40	2 50	335 90	30 54	1 90	63	81	1 01	
Miner .....	280	212	11	196	338 50	2 75	335 75	30 52	1 71	70	92	1 00	
Miner .....	281	219	11	213	337 05	2 75	334 30	30 39	1 57	76	97	1 00	
Miner .....	280	205	11	205	336 35	2 50	333 85	30 35	1 63	73	100	1 00	
Miner .....	281	201	11	179	332 60	2 50	330 10	30 01	1 84	64	89	99	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days				Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time
Miner .....	280	205	11	185	\$331 85	\$2 75	\$329 10	\$29 92	\$1 78	66	90	\$0 93	
Miner .....	281	219	11	187	327 45	2 75	324 70	29 52	1 74	67	85	97	
Miner .....	281	200	11	174	325 75	2 50	323 25	29 39	1 86	62	87	96	
Miner .....	279	200	11	177	322 20	2 25	319 95	29 09	1 81	63	88	96	
Miner .....	280	205	11	176	321 25	2 75	318 50	28 95	1 81	63	86	95	
Miner .....	280	205	11	191	315 95	2 50	313 45	28 50	1 64	68	93	94	
Miner .....	281	219	11	209	310 10	2 75	307 35	27 94	1 47	74	95	92	
Miner .....	281	201	11	184	309 75	2 75	307 00	27 91	1 67	65	92	91	
Miner .....	280	207	11	171	303 85	2 50	301 35	27 40	1 76	61	83	90	
Miner .....	279	200	11	184	299 25	2 50	296 75	26 98	1 61	66	92	89	
Miner .....	281	219	11	203	298 80	2 75	296 05	26 91	1 46	72	93	89	
Miner .....	279	200	11	173	292 80	2 50	290 30	26 39	1 68	62	86	87	
Miner .....	281	219	11	208	288 35	2 75	285 60	25 96	1 37	74	95	86	
Miner .....	279	200	11	172	279 70	2 25	277 20	25 20	1 61	61	86	83	
Miner .....	281	201	11	176	278 70	2 25	276 45	25 04	1 57	63	88	82	
Miner .....	281	200	11	153	269 70	2 25	267 45	24 31	1 75	54	76	80	
Miner .....	280	205	11	180	263 45	2 50	260 95	23 71	1 45	64	88	78	
Miner .....	280	212	11	182	257 65	2 25	255 40	23 22	1 40	64	86	76	
Miner .....	280	205	11	172	232 70	2 00	230 70	20 97	1 34	61	84	69	
Miner .....	280	212	11	182	215 25	2 30	212 95	19 36	1 17	65	86	64	
Miner .....	254	193	10	189	378 30	2 65	375 65	37 56	1 98	74	98	1 24	
Miner .....	255	207	10	201	347 85	2 50	345 35	34 54	1 72	79	97	1 14	
Miner .....	254	193	10	191	338 55	2 50	336 05	33 60	1 76	75	99	1 10	
Miner .....	254	193	10	184	334 60	2 50	332 10	33 21	1 80	72	95	1 09	
Miner .....	254	193	10	161	327 20	2 00	325 20	32 52	2 02	63	83	1 07	
Miner .....	255	189	10	175	327 65	2 50	325 15	32 52	1 86	69	92	1 07	
Miner .....	254	193	10	179	320 50	2 25	318 25	31 83	1 78	70	93	1 05	
Miner .....	254	193	10	184	320 05	2 25	317 80	31 78	1 72	72	95	1 04	
Miner .....	254	193	10	176	314 20	2 25	311 95	31 19	1 77	69	91	1 03	
Miner .....	254	194	10	170	310 90	2 25	308 65	30 87	1 88	67	87	1 02	
Miner .....	255	207	10	188	310 20	2 50	307 70	30 77	1 63	74	91	1 01	
Miner .....	254	193	10	190	296 75	2 25	294 50	29 45	1 55	75	98	97	
Miner .....	256	178	10	151	284 50	2 20	282 30	28 23	1 87	59	85	93	
Miner .....	255	189	10	187	283 30	2 50	280 80	28 08	1 50	73	99	92	
Miner .....	255	200	10	167	283 00	2 25	280 75	28 08	1 68	66	86	92	
Miner .....	255	200	10	175	269 85	2 25	267 60	26 76	1 52	69	87	88	
Miner .....	254	195	10	155	266 65	2 25	264 40	26 46	1 70	61	79	87	
Miner .....	254	193	10	176	259 70	2 00	257 70	25 77	1 46	69	91	85	
Miner .....	254	194	10	164	255 25	2 00	253 25	25 32	1 54	65	84	84	
Miner .....	256	178	10	144	253 85	2 00	251 85	25 19	1 75	56	81	83	
Miner .....	254	193	10	177	241 80	2 00	239 80	23 98	1 35	70	91	79	
Miner .....	254	194	10	162	240 15	2 25	237 90	23 79	1 47	64	83	78	
Miner .....	254	194	10	154	235 15	2 25	232 90	23 29	1 51	61	79	77	
Miner .....	255	189	10	145	219 35	1 75	217 60	21 76	1 50	57	76	72	
Miner .....	255	200	10	133	188 60	2 00	186 60	18 66	1 40	52	66	61	
Miner .....	229	188	9	163	336 60	2 25	334 35	37 15	2 05	71	86	1 22	
Miner .....	229	188	9	186	332 65	2 25	330 40	36 71	1 77	81	99	1 21	
Miner .....	229	170	9	164	332 35	2 25	330 10	36 68	2 01	72	96	1 21	
Miner .....	229	188	9	188	327 50	2 25	325 25	36 14	1 73	82	100	1 19	
Miner .....	229	188	9	174	318 00	2 25	315 75	35 08	1 81	76	92	1 15	



Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smelting.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days			Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.							
Miner .....	229	188	9	184	\$304 55	\$2 25	\$302 30	\$33 59	\$1 64	80	98	\$1 11										
Miner .....	229	188	9	163	293 30	1 90	291 40	32 38	1 79	71	86	1 07										
Miner .....	229	188	9	175	293 30	2 35	291 05	32 34	1 66	76	93	1 07										
Miner .....	229	170	9	166	291 50	2 35	289 25	32 14	1 74	72	98	1 06										
Miner .....	232	172	9	169	280 45	2 35	278 20	30 91	1 61	73	98	1 01										
Miner .....	232	172	9	154	278 85	2 00	276 85	30 76	1 82	64	89	1 00										
Miner .....	229	188	9	177	278 30	2 35	276 05	30 68	1 56	77	94	1 01										
Miner .....	229	188	9	178	275 65	2 25	273 40	30 38	1 54	78	94	1 00										
Miner .....	229	170	9	136	275 10	2 00	273 10	30 34	2 01	59	80	1 00										
Miner .....	229	188	9	147	271 85	2 10	269 75	29 97	1 84	64	78	99										
Miner .....	232	172	9	164	270 95	2 25	268 70	29 86	1 64	70	95	97										
Miner .....	227	151	9	146	269 45	2 25	267 20	29 69	1 83	64	96	98										
Miner .....	229	170	9	151	269 15	2 00	267 15	29 68	1 77	66	89	98										
Miner .....	229	188	9	146	268 95	2 50	266 45	29 61	1 82	64	77	98										
Miner .....	232	172	9	165	268 40	2 25	266 15	29 57	1 61	71	96	96										
Miner .....	229	188	9	172	267 45	2 25	265 20	29 47	1 54	75	91	97										
Miner .....	229	188	9	167	265 50	2 25	263 25	29 25	1 58	73	89	96										
Miner .....	229	188	9	163	258 10	2 00	256 10	28 46	1 57	71	86	94										
Miner .....	232	172	9	163	253 05	2 00	251 05	27 89	1 54	70	95	91										
Miner .....	232	172	9	163	252 40	2 00	250 40	27 82	1 54	70	95	91										
Miner .....	232	172	9	159	252 15	2 00	250 15	27 79	1 57	69	92	91										
Miner .....	229	188	9	172	251 25	2 15	249 10	27 68	1 45	75	91	91										
Miner .....	232	172	9	163	250 55	2 00	248 55	27 62	1 52	70	95	90										
Miner .....	232	172	9	151	250 70	2 15	248 55	27 62	1 65	65	88	90										
Miner .....	229	188	9	162	250 55	2 25	248 30	27 59	1 53	71	86	91										
Miner .....	229	170	9	146	248 40	2 00	246 40	27 38	1 69	64	86	90										
Miner .....	229	188	9	178	248 55	2 25	246 30	27 37	1 38	78	94	90										
Miner .....	232	172	9	136	243 85	2 00	241 85	26 87	1 78	59	79	88										
Miner .....	229	170	9	152	239 85	2 25	237 60	26 40	1 56	64	89	87										
Miner .....	228	156	9	145	234 70	2 20	232 50	25 83	1 60	64	93	85										
Miner .....	230	161	9	128	233 65	1 50	232 15	25 79	1 81	56	80	85										
Miner .....	228	156	9	151	230 90	2 25	228 65	25 41	1 51	66	97	83										
Miner .....	229	188	9	180	223 40	2 25	221 15	24 57	1 23	79	96	81										
Miner .....	230	161	9	138	221 95	1 50	220 45	24 49	1 60	60	86	81										
Miner .....	230	181	9	139	215 15	2 00	213 15	23 68	1 53	60	76	78										
Miner .....	232	172	9	147	213 90	2 00	211 90	23 51	1 44	63	85	77										
Miner .....	229	188	9	171	213 35	2 00	211 35	23 48	1 24	75	96	77										
Miner .....	232	167	9	146	210 30	1 75	208 55	23 17	1 43	63	87	75										
Miner .....	229	170	9	157	206 15	2 00	204 15	22 68	1 30	69	92	75										
Miner .....	232	172	9	130	204 50	1 95	202 55	22 41	1 56	56	76	73										
Miner .....	229	153	9	125	197 00	1 75	195 25	21 69	1 56	55	82	71										
Miner .....	232	172	9	116	192 70	1 75	190 95	21 22	1 62	50	67	69										
Miner .....	230	184	9	125	186 90	2 00	184 90	20 56	1 48	54	68	68										
Miner .....	229	188	9	176	111 85	2 00	109 85	12 21	62	77	94	40										
Miner .....	229	188	9	177	108 50	2 25	106 25	11 81	60	77	94	39										
Miner .....	202	165	8	148	314 35	2 00	312 35	39 04	2 11	73	90	1 29										
Miner .....	202	169	8	154	303 35	2 00	301 35	37 67	1 96	76	91	1 24										
Miner .....	206	155	8	152	292 70	1 75	290 95	36 37	1 91	74	98	1 19										
Miner .....	202	146	8	145	281 30	2 00	279 30	34 91	1 93	72	99	1 15										
Miner .....	204	130	8	130	273 40	1 75	271 65	33 96	2 09	64	100	1 12										



Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	203	169	8	155	\$261 95	\$2 00	\$259 95	\$32 48	\$1 68	76	92	\$1 07	
Miner .....	203	169	8	162	257 35	2 00	255 35	31 92	1 58	80	96	1 05	
Miner .....	202	146	8	142	255 10	2 00	253 10	31 64	1 78	70	97	1 06	
Miner .....	202	146	8	135	244 40	2 00	242 40	30 30	1 79	67	92	1 00	
Miner .....	202	165	8	153	242 60	1 95	240 65	30 08	1 57	76	93	99	
Miner .....	206	155	8	147	237 00	1 75	235 25	29 41	1 60	71	95	96	
Miner .....	206	155	8	147	237 00	1 75	235 25	29 41	1 60	71	95	96	
Miner .....	206	155	8	147	237 00	1 75	235 25	29 41	1 60	71	95	96	
Miner .....	202	165	8	162	235 60	2 00	233 60	29 20	1 44	80	98	97	
Miner .....	202	165	8	153	231 45	2 00	229 45	28 48	1 50	76	93	95	
Miner .....	204	147	8	128	222 45	1 50	220 95	27 62	1 73	63	87	91	
Miner .....	203	151	8	131	222 95	2 00	220 95	27 62	1 68	65	87	91	
Miner .....	202	165	8	160	221 60	2 00	219 60	27 45	1 37	79	97	91	
Miner .....	202	164	8	122	220 15	2 00	218 15	27 27	1 79	60	74	90	
Miner .....	207	167	8	151	219 60	1 75	217 85	27 23	1 44	73	90	89	
Miner .....	202	165	8	156	215 40	2 00	213 40	27 67	1 37	77	95	87	
Miner .....	202	165	8	151	214 15	2 00	212 15	26 52	1 40	75	92	86	
Miner .....	207	144	8	128	210 30	1 75	208 55	26 07	1 63	62	89	85	
Miner .....	202	165	8	138	209 45	1 75	207 70	25 96	1 51	68	83	86	
Miner .....	202	165	8	135	209 05	1 75	207 30	25 91	1 54	67	82	86	
Miner .....	207	144	8	122	205 60	1 55	204 05	25 51	1 67	59	85	83	
Miner .....	202	163	8	123	203 50	1 75	201 75	25 22	1 64	61	76	83	
Miner .....	203	151	8	124	202 90	1 80	201 10	25 13	1 62	61	82	83	
Miner .....	202	146	8	122	201 10	2 00	199 10	24 89	1 63	60	84	82	
Miner .....	202	146	8	112	200 35	1 75	198 60	24 83	1 77	55	77	82	
Miner .....	206	155	8	132	198 95	1 75	197 20	24 64	1 49	64	85	80	
Miner .....	207	144	8	118	189 95	2 00	187 95	23 49	1 59	57	82	77	
Miner .....	207	144	8	115	178 25	1 25	177 00	22 13	1 54	56	80	72	
Miner .....	177	139	7	128	263 20	1 75	261 45	37 35	2 04	72	92	1 23	
Miner .....	177	123	7	97	260 90	2 10	258 80	36 97	2 67	55	79	1 22	
Miner .....	177	139	7	138	258 55	1 75	256 80	36 69	1 95	75	95	1 21	
Miner .....	177	139	7	132	254 90	1 75	238 15	36 17	1 92	75	95	1 19	
Miner .....	177	133	7	138	248 20	1 75	246 45	35 21	1 79	78	99	1 16	
Miner .....	177	139	7	138	248 20	1 75	246 45	35 21	1 79	78	99	1 16	
Miner .....	177	139	7	138	248 20	1 75	246 45	35 21	1 79	78	99	1 16	
Miner .....	180	120	7	106	243 20	1 85	241 35	34 48	2 28	59	88	1 13	
Miner .....	177	139	7	135	240 40	1 75	238 65	34 09	1 77	76	97	1 13	
Miner .....	181	132	7	119	239 35	1 75	237 60	33 94	2 00	66	90	1 11	
Miner .....	177	139	7	139	237 45	1 75	235 70	33 67	1 70	79	100	1 11	
Miner .....	177	139	7	137	234 80	1 75	233 05	33 29	1 70	77	98	1 10	
Miner .....	181	132	7	131	232 90	1 75	231 15	33 02	1 76	72	92	1 08	
Miner .....	177	139	7	133	230 40	1 75	228 65	32 66	1 72	75	96	1 08	
Miner .....	177	139	7	138	226 55	1 75	224 80	32 11	1 63	78	99	1 06	
Miner .....	177	139	7	139	226 20	1 75	224 45	32 06	1 64	78	99	1 06	
Miner .....	181	132	7	119	222 85	1 40	221 45	31 64	1 86	66	90	1 04	
Miner .....	177	139	7	138	221 05	1 75	219 30	31 33	1 59	78	99	1 03	
Miner .....	177	139	7	138	221 00	1 75	219 25	31 32	1 59	78	99	1 03	
Miner .....	177	139	7	138	221 00	1 75	219 25	31 32	1 59	78	99	1 03	
Miner .....	181	155	7	134	213 95	1 60	212 35	30 54	1 59	74	86	99	
Miner .....	181	132	7	115	211 90	1 25	210 05	30 01	1 83	64	87	99	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	177	139	7	117	\$210 30	\$1 75	\$208 55	\$29 79	\$ 1 78	66	84	\$0 98	
Miner .....	177	139	7	177	204 60	1 75	202 85	28 98	1 73	66	81	96	
Miner .....	179	146	7	128	203 95	1 75	202 20	28 88	1 58	72	88	94	
Miner .....	177	139	7	131	203 40	1 75	201 65	28 81	1 51	74	94	95	
Miner .....	178	153	7	129	202 60	1 50	201 10	28 73	1 54	72	84	95	
Miner .....	181	132	7	127	195 95	1 50	194 45	27 78	1 53	60	96	91	
Miner .....	177	139	7	116	191 40	1 50	189 90	27 13	1 64	65	83	90	
Miner .....	177	139	7	99	190 90	1 25	189 65	27 09	1 02	56	70	89	
Miner .....	177	139	7	120	189 30	1 75	187 55	26 79	1 48	68	86	88	
Miner .....	177	105	7	101	183 60	1 50	182 10	26 01	1 80	57	96	85	
Miner .....	180	141	7	132	183 35	1 50	181 85	25 98	1 38	73	94	85	
Miner .....	180	141	7	132	183 35	1 50	181 85	25 98	1 38	73	94	85	
Miner .....	178	153	7	142	183 05	1 75	181 30	25 90	1 28	80	93	86	
Miner .....	179	132	7	107	181 60	1 50	180 10	25 73	1 68	60	81	84	
Miner .....	177	123	7	108	180 95	1 75	179 20	25 60	1 66	61	88	85	
Miner .....	177	139	7	130	171 65	1 75	169 90	24 27	1 31	73	94	80	
Miner .....	177	139	7	127	167 35	1 75	165 60	23 66	1 30	72	91	78	
Miner .....	177	139	7	125	160 30	1 50	158 80	22 69	1 27	71	90	75	
Miner .....	177	123	7	107	160 05	1 50	158 55	22 65	1 48	60	87	75	
Miner .....	176	144	7	112	160 15	1 75	158 40	22 63	1 41	64	83	75	
Miner .....	180	142	7	112	159 20	1 50	157 70	22 53	1 41	62	79	74	
Miner .....	177	123	7	90	152 30	1 50	150 80	21 54	1 68	51	73	71	
Miner .....	177	139	7	122	151 70	1 75	149 95	21 42	1 23	69	88	71	
Miner .....	181	132	7	90	140 90	1 50	148 40	21 20	1 65	50	68	60	
Miner .....	176	134	7	104	144 05	1 50	142 55	20 36	1 37	59	78	67	
Miner .....	151	126	7	89	139 65	1 50	138 15	19 74	1 55	51	71	65	
Miner .....	180	125	7	89	117 55	1 25	116 30	16 61	1 31	49	71	54	
Miner .....	151	128	6	113	228 85	1 50	227 35	37 89	2 01	75	88	1 26	
Miner .....	151	129	6	113	206 85	1 50	205 35	34 23	1 82	75	94	1 13	
Miner .....	156	110	6	109	206 40	1 50	204 90	34 15	1 86	71	100	1 11	
Miner .....	155	136	6	123	204 10	1 50	202 60	33 77	1 65	79	90	1 10	
Miner .....	150	115	6	113	196 45	1 50	194 95	32 49	1 72	75	98	1 08	
Miner .....	154	108	6	84	193 00	1 50	191 50	31 92	2 28	55	78	1 05	
Miner .....	155	113	6	106	191 15	1 25	189 90	31 65	1 79	68	94	1 04	
Miner .....	156	109	6	101	190 05	1 25	188 80	31 47	1 87	65	93	1 03	
Miner .....	150	115	6	104	188 90	1 50	187 40	31 23	1 80	67	90	1 04	
Miner .....	156	109	6	109	185 15	1 25	183 90	30 65	1 69	70	100	1 00	
Miner .....	155	136	6	118	183 80	1 50	182 30	30 38	1 54	76	87	99	
Miner .....	156	109	6	88	182 35	1 25	181 10	30 18	2 06	56	81	98	
Miner .....	150	115	6	111	180 70	1 50	179 20	29 87	1 61	74	97	99	
Miner .....	155	113	6	98	172 20	1 25	170 95	28 49	1 74	63	87	93	
Miner .....	151	120	6	104	171 45	1 50	169 95	28 33	1 63	69	87	93	
Miner .....	150	115	6	111	170 65	1 50	169 15	28 19	1 92	74	97	93	
Miner .....	156	109	6	84	168 30	1 25	167 05	27 84	1 99	54	77	91	
Miner .....	151	120	6	97	164 00	1 50	162 50	27 08	1 68	64	81	89	
Miner .....	150	115	6	106	163 30	1 50	161 80	26 97	1 53	71	92	89	
Miner .....	156	109	6	91	162 00	1 50	160 50	26 75	1 76	58	83	87	
Miner .....	154	124	6	103	158 30	1 25	157 05	26 18	1 62	67	83	85	
Miner .....	150	115	6	98	158 15	1 25	156 90	26 15	1 60	65	85	87	
Miner .....	156	109	6	84	155 75	1 25	154 50	25 75	1 84	54	77	84	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	150	115	6	99	\$154 45	\$1 25	\$153 20	\$25 53	\$1 55	66	86	\$0 85	
Miner .....	150	115	6	98	152 45	1 50	150 95	25 16	1 60	65	85	83	
Miner .....	180	115	6	105	149 55	1 50	148 05	24 68	1 41	70	91	82	
Miner .....	150	115	6	105	149 20	1 50	147 70	24 62	1 41	70	91	82	
Miner .....	150	115	6	103	146 60	1 50	145 10	24 18	1 41	69	90	80	
Miner .....	151	120	6	88	143 20	1 50	141 70	23 62	1 61	68	73	78	
Miner .....	150	115	6	110	142 25	1 50	140 75	23 46	1 28	73	95	78	
Miner .....	150	115	6	92	138 20	1 25	136 95	22 83	1 49	61	80	76	
Miner .....	130	116	6	90	133 05	1 25	131 80	21 97	1 46	69	78	73	
Miner .....	150	115	6	88	133 10	1 50	131 60	21 93	1 48	59	77	73	
Miner .....	150	115	6	94	131 65	1 25	130 40	21 73	1 39	63	81	72	
Miner .....	150	115	6	101	128 60	1 25	127 35	21 23	1 26	67	88	70	
Miner .....	151	120	6	86	128 60	1 25	127 35	21 23	1 48	57	72	70	
Miner .....	150	115	6	98	127 60	1 50	126 10	21 02	1 29	65	85	70	
Miner .....	154	122	6	83	127 20	1 25	125 95	20 99	1 52	54	68	68	
Miner .....	151	120	6	104	127 90	1 50	125 80	20 97	1 21	69	87	69	
Miner .....	156	109	6	70	126 75	1 00	125 75	20 96	1 80	45	64	68	
Miner .....	151	120	6	104	124 35	1 50	122 85	20 47	1 18	70	87	67	
Miner .....	150	115	6	98	122 40	1 50	120 90	20 15	1 23	65	85	67	
Miner .....	152	100	6	77	121 95	1 25	120 70	20 12	1 57	51	77	67	
Miner .....	151	120	6	99	121 80	1 50	120 30	20 05	1 22	66	82	67	
Miner .....	151	120	6	96	118 85	1 50	117 35	19 56	1 22	64	80	65	
Miner .....	155	96	6	70	117 30	1 25	116 05	19 34	1 66	45	43	63	
Miner .....	151	120	6	91	99 30	1 50	97 80	16 30	1 07	60	76	53	
Miner .....	154	124	6	92	97 45	1 25	96 20	16 03	1 05	60	74	52	
Miner .....	150	115	6	84	92 90	1 30	91 60	15 27	1 09	56	73	51	
Miner .....	126	104	5	102	199 25	1 25	198 00	39 20	1 34	81	98	1 30	
Miner .....	129	85	5	83	197 45	1 00	196 45	39 29	2 37	64	98	1 28	
Miner .....	126	104	5	103	165 85	1 25	164 60	32 92	1 60	82	99	1 09	
Miner .....	126	104	5	100	161 85	1 25	160 60	32 12	1 61	79	96	1 06	
Miner .....	129	85	5	79	152 85	1 00	151 85	30 37	1 92	61	91	99	
Miner .....	129	101	5	88	150 95	1 00	149 95	29 99	1 70	68	87	98	
Miner .....	125	92	5	84	149 05	1 25	147 80	29 56	1 76	67	91	91	
Miner .....	129	85	5	68	135 95	1 00	134 95	26 99	1 98	53	80	83	
Miner .....	129	101	5	99	133 95	90	133 05	26 61	1 34	77	98	87	
Miner .....	125	92	5	91	133 25	1 25	132 00	26 40	1 45	73	99	87	
Miner .....	128	111	5	87	130 75	1 00	129 75	25 95	1 49	68	78	85	
Miner .....	130	108	5	84	130 35	1 25	129 10	25 82	1 54	65	78	85	
Miner .....	129	85	5	83	130 25	1 25	129 00	25 80	1 55	64	98	84	
Miner .....	129	101	5	92	129 45	1 00	128 45	25 69	1 40	71	91	84	
Miner .....	129	85	5	68	126 80	1 00	125 80	25 16	1 85	53	80	82	
Miner .....	125	92	5	81	124 90	1 25	123 65	24 73	1 53	65	88	82	
Miner .....	129	119	5	83	124 45	90	123 55	24 71	1 49	64	70	81	
Miner .....	130	90	5	71	124 20	1 00	123 20	24 64	1 74	55	79	81	
Miner .....	125	92	5	85	123 65	1 25	122 40	24 48	1 44	68	92	81	
Miner .....	130	90	5	74	120 75	1 00	119 75	23 95	1 62	57	82	78	
Miner .....	129	85	5	60	118 30	1 25	117 05	23 41	1 95	47	71	77	
Miner .....	125	92	5	90	117 25	1 25	116 00	23 20	1 29	72	98	77	
Miner .....	125	92	5	90	117 25	1 25	116 00	23 20	1 29	72	98	77	
Miner .....	125	92	5	90	117 25	1 25	116 00	23 20	1 29	72	98	77	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé ap- pears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Time	Time	Am't.	Am't.		
Miner .....	126	104	5	94	\$116 45	\$1 25	\$115 20	\$23 04	\$1 23	75	90	\$0 76												
Miner .....	126	104	5	94	116 45	1 25	115 20	23 04	1 23	75	90	76												
Miner .....	129	85	5	67	115 90	1 25	115 15	23 03	1 72	52	79	75												
Miner .....	129	85	5	77	115 50	1 25	114 25	23 03	1 48	60	91	75												
Miner .....	129	85	5	66	114 90	1 25	113 65	22 73	1 72	51	78	74												
Miner .....	129	101	5	82	112 25	1 00	111 25	22 25	1 36	64	81	73												
Miner .....	125	92	5	83	111 20	1 25	109 95	21 99	1 32	66	90	73												
Miner .....	128	71	5	62	110 00	1 00	109 00	21 80	1 76	49	87	71												
Miner .....	129	85	5	72	109 60	1 00	108 60	21 72	1 51	54	85	71												
Miner .....	124	96	5	72	107 25	1 00	106 25	21 25	1 48	58	75	70												
Miner .....	124	98	5	85	105 35	1 25	104 10	20 82	1 22	69	87	69												
Miner .....	130	108	5	80	103 65	1 00	102 65	20 53	1 28	62	74	67												
Miner .....	129	85	5	68	101 95	1 25	100 70	20 53	1 51	53	80	67												
Miner .....	129	85	5	62	100 30	1 00	99 30	19 86	1 60	48	73	65												
Miner .....	124	96	5	83	98 95	1 25	97 70	19 54	1 18	67	86	65												
Miner .....	130	90	5	66	98 60	1 00	92 60	18 52	1 40	51	73	61												
Miner .....	129	85	5	66	92 45	1 25	91 20	18 24	1 38	51	78	60												
Miner .....	128	94	5	70	90 05	1 00	89 05	17 81	1 27	55	74	58												
Miner .....	129	85	5	50	88 90	75	88 15	17 63	1 76	39	59	58												
Miner .....	125	92	5	60	84 30	1 00	83 30	16 66	1 39	48	67	55												
Miner .....	128	71	5	57	83 60	1 05	82 55	16 51	1 45	45	80	54												
Miner .....	127	98	5	69	83 55	1 00	82 55	16 51	1 20	54	70	54												
Miner .....	128	111	5	50	78 10	50	77 60	15 52	1 55	39	45	51												
Miner .....	126	101	5	57	76 60	75	75 85	15 17	1 33	45	56	51												
Miner .....	104	96	4	87	159 95	1 00	158 95	39 74	1 88	83	91	1 30												
Miner .....	104	96	4	88	137 30	1 00	136 30	34 07	1 55	85	92	1 12												
Miner .....	104	61	4	60	121 35	75	120 60	30 15	2 01	58	98	98												
Miner .....	100	69	4	57	121 20	1 00	120 20	30 05	2 11	57	83	1 00												
Miner .....	104	78	4	66	112 50	75	111 75	27 94	1 69	63	85	91												
Miner .....	104	78	4	64	112 40	75	111 65	27 91	1 74	62	82	91												
Miner .....	103	87	4	76	111 95	75	111 20	27 80	1 46	74	88	90												
Miner .....	103	87	4	67	109 60	1 00	108 60	27 15	1 62	65	77	88												
Miner .....	100	69	4	61	104 35	1 00	103 35	25 84	1 69	61	88	86												
Miner .....	99	80	4	70	103 10	75	102 35	25 59	1 46	71	87	85												
Miner .....	100	69	4	64	102 80	1 00	101 80	25 45	1 59	64	93	85												
Miner .....	100	69	4	65	102 75	1 00	101 75	25 44	1 57	65	94	85												
Miner .....	100	69	4	56	101 55	1 00	100 55	25 14	1 80	56	81	84												
Miner .....	99	80	4	70	101 35	1 00	100 35	25 09	1 43	71	87	84												
Miner .....	100	69	4	67	99 85	1 00	98 85	24 71	1 48	67	97	82												
Miner .....	99	80	4	68	95 30	1 00	94 30	23 57	1 39	69	85	79												
Miner .....	99	80	4	68	95 30	1 00	94 30	23 57	1 39	69	85	79												
Miner .....	103	87	4	83	93 45	1 00	92 45	23 11	1 11	81	95	75												
Miner .....	100	69	4	63	92 90	1 00	91 90	22 97	1 46	63	91	77												
Miner .....	103	87	4	75	92 50	1 00	91 50	22 87	1 23	73	86	74												
Miner .....	102	94	4	70	91 85	75	91 10	22 77	1 30	69	74	75												
Miner .....	103	71	4	62	91 90	1 00	90 90	22 72	1 47	60	87	74												
Miner .....	104	61	4	58	88 80	75	88 05	22 01	1 52	56	95	72												
Miner .....	103	75	4	46	87 30	75	86 55	21 64	1 88	45	61	70												
Miner .....	99	80	4	73	85 85	1 00	84 85	21 21	1 16	74	91	71												
Miner .....	99	73	4	58	85 55	1 00	84 55	21 14	1 46	59	79	70												

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	103	87	4	72	\$85 30	\$1 00	\$84 30	\$21 07	\$1 17	70	83	\$0 69
Miner .....	99	73	4	56	81 70	1 00	80 70	20 17	1 44	57	77	67
Miner .....	102	94	4	62	80 85	75	80 10	20 02	1 29	61	66	66
Miner .....	103	66	4	59	80 60	75	79 85	19 96	1 35	57	89	65
Miner .....	100	69	4	67	80 45	1 00	79 45	19 86	1 19	67	97	66
Miner .....	103	87	4	70	79 90	1 00	78 90	19 72	1 13	68	80	64
Miner .....	103	75	4	54	79 85	1 00	78 85	19 71	1 46	52	72	64
Miner .....	103	71	4	44	79 25	75	78 50	19 62	1 78	43	62	64
Miner .....	103	66	4	58	79 00	75	78 25	19 56	1 35	56	88	64
Miner .....	103	66	4	55	78 50	95	77 55	19 39	1 41	53	83	64
Miner .....	103	71	4	50	77 30	1 00	76 30	19 07	1 53	50	70	64
Miner .....	99	80	4	70	76 75	1 00	75 75	18 94	1 08	71	87	63
Miner .....	104	61	4	43	75 95	50	75 45	18 86	1 75	41	70	61
Miner .....	104	61	4	43	75 95	50	75 45	18 86	1 75	41	70	61
Miner .....	104	61	4	55	74 60	75	73 85	18 46	1 34	53	90	60
Miner .....	104	61	4	55	74 60	75	73 85	18 46	1 34	53	90	60
Miner .....	99	80	4	45	64 21	75	63 45	15 86	1 41	45	96	53
Miner .....	104	61	4	36	56 85	50	56 35	14 09	1 57	35	59	46
Miner .....	104	61	4	38	53 75	50	53 25	13 31	1 40	37	62	43
Miner .....	104	61	4	42	50 95	1 00	49 95	12 49	1 19	40	69	41
Miner .....	104	61	4	42	50 05	50	49 55	12 39	1 18	40	69	40
Miner .....	74	52	3	52	115 65	95	114 70	38 25	2 21	70	100	1 29
Miner .....	79	73	3	72	111 95	60	111 35	37 12	1 55	91	99	1 21
Miner .....	74	52	3	47	111 50	75	110 75	36 92	2 36	64	90	1 24
Miner .....	79	73	3	60	106 85	75	105 10	35 03	1 75	76	82	1 14
Miner .....	74	52	3	51	99 25	75	98 50	32 83	1 93	69	98	1 11
Miner .....	79	56	3	51	98 95	75	98 20	32 73	1 92	64	91	1 07
Miner .....	79	73	3	49	96 75	75	96 00	32 00	1 63	75	81	1 04
Miner .....	77	70	3	53	95 65	75	94 90	31 63	1 79	69	76	1 03
Miner .....	79	56	3	47	94 70	75	93 95	31 32	2 00	59	84	1 02
Miner .....	74	52	3	50	92 70	75	91 95	30 65	1 84	68	96	1 03
Miner .....	79	73	3	43	91 80	75	91 05	30 35	1 72	67	73	99
Miner .....	77	70	3	48	85 20	75	84 45	28 15	1 76	62	69	92
Miner .....	77	70	3	50	85 05	75	84 30	28 10	1 69	65	71	92
Miner .....	77	71	3	45	84 65	50	84 15	28 05	1 87	58	63	92
Miner .....	74	52	3	41	83 90	75	83 15	27 72	2 03	55	79	93
Miner .....	74	52	3	52	82 25	75	81 50	27 17	1 57	70	100	92
Miner .....	77	70	3	51	78 80	75	78 05	26 62	1 53	66	73	85
Miner .....	74	52	3	46	78 20	75	77 45	25 82	1 68	62	88	87
Miner .....	77	71	3	44	77 75	75	77 00	26 67	1 75	57	62	85
Miner .....	74	52	3	44	77 75	75	77 00	25 66	1 62	62	88	86
Miner .....	77	71	3	46	77 45	75	76 70	25 22	1 18	83	90	83
Miner .....	77	71	3	64	76 40	75	75 65	25 22	1 18	83	90	83
Miner .....	77	71	3	64	76 40	75	75 65	25 22	1 18	83	90	83
Miner .....	74	52	3	38	75 10	75	74 35	24 78	1 96	51	73	83
Miner .....	77	36	3	35	73 75	50	73 25	24 42	2 09	47	97	80
Miner .....	74	52	3	47	73 15	75	72 40	24 13	1 54	64	90	81
Miner .....	77	54	3	43	71 80	75	71 05	23 68	1 65	56	80	77
Miner .....	74	52	3	43	71 70	75	70 95	23 65	1 65	58	83	80
Miner .....	78	61	3	38	70 75	75	70 00	23 33	1 84	49	62	77

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employe.	Gross earnings of employe for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employe for the time he appears on the pay-roll.	Average monthly receipts for the months employe appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employe appears on the pay-roll.
	Days	Days											
Miner .....	74	52	3	45	\$70 15	\$0 75	\$69 40	\$23 13	\$1 54	61	86	\$9 78	
Miner .....	74	52	3	45	69 95	75	69 20	23 06	1 54	61	87	78	
Miner .....	77	54	3	45	69 30	50	68 80	22 93	1 53	58	83	75	
Miner .....	74	52	3	45	69 40	75	68 65	22 88	1 53	61	87	77	
Miner .....	79	73	3	48	68 40	50	67 90	22 63	1 41	61	66	74	
Miner .....	74	52	3	42	65 30	75	64 55	21 52	1 54	57	81	70	
Miner .....	77	36	3	36	64 30	75	63 55	21 18	1 77	47	100	69	
Miner .....	74	52	3	45	64 25	75	63 50	21 17	1 41	61	87	71	
Miner .....	77	36	3	32	63 65	50	63 15	21 05	1 97	42	89	69	
Miner .....	74	52	3	40	63 25	75	62 50	20 83	1 56	54	77	70	
Miner .....	77	70	3	41	62 50	50	62 00	20 67	1 51	53	59	67	
Miner .....	77	54	3	39	61 90	50	61 40	20 47	1 57	51	73	67	
Miner .....	74	52	3	47	61 90	75	61 15	20 38	1 30	64	90	69	
Miner .....	74	52	3	47	61 90	75	61 15	20 38	1 30	64	90	69	
Miner .....	77	54	3	44	60 70	75	59 95	19 98	1 36	57	80	65	
Miner .....	76	66	3	54	60 35	75	59 60	19 87	1 10	71	82	65	
Miner .....	77	70	3	51	60 30	75	59 55	19 85	1 16	66	73	65	
Miner .....	77	36	3	32	59 95	50	59 45	19 82	1 86	42	89	65	
Miner .....	79	73	3	50	59 65	50	59 15	19 72	1 18	63	68	64	
Miner .....	74	50	3	37	59 70	70	59 00	19 67	1 39	50	74	66	
Miner .....	77	54	3	42	58 90	50	58 40	19 47	1 39	55	78	63	
Miner .....	77	36	3	33	58 35	50	57 85	19 28	1 75	43	92	63	
Miner .....	77	36	3	32	58 10	50	57 60	19 20	1 80	42	89	63	
Miner .....	76	66	3	46	58 10	75	57 35	19 12	1 25	61	70	62	
Miner .....	76	36	3	35	57 45	50	56 95	18 98	1 63	45	97	62	
Miner .....	77	54	3	46	57 45	50	56 95	18 98	1 24	60	85	62	
Miner .....	77	54	3	46	57 45	50	56 95	18 98	1 24	60	85	62	
Miner .....	76	66	3	49	57 65	75	56 90	18 97	1 16	64	74	63	
Miner .....	74	52	3	37	57 40	50	56 90	18 97	1 54	50	71	64	
Miner .....	74	52	3	37	57 40	50	56 90	18 97	1 54	50	71	64	
Miner .....	77	54	3	33	57 50	75	56 75	18 92	1 72	43	61	62	
Miner .....	77	47	3	36	57 25	75	56 50	18 83	1 57	47	76	62	
Miner .....	74	52	3	46	54 75	50	54 25	18 08	1 18	62	88	61	
Miner .....	77	36	3	32	53 70	50	53 20	17 73	1 60	41	89	58	
Miner .....	74	52	3	32	51 40	25	51 15	17 05	1 60	43	62	57	
Miner .....	78	42	3	31	51 11	50	50 60	16 86	1 63	40	74	55	
Miner .....	74	50	3	41	50 80	50	50 30	16 77	1 23	55	82	56	
Miner .....	74	50	3	40	49 90	75	49 15	16 38	1 23	54	80	55	
Miner .....	74	52	3	32	46 25	50	45 75	15 25	1 43	43	62	51	
Miner .....	76	66	8	45	44 40	50	43 90	14 63	98	59	68	48	
Miner .....	78	42	3	20	41 05	75	40 30	13 43	2 02	26	48	44	
Miner .....	74	52	3	29	39 80	75	39 05	13 02	1 35	39	56	44	
Miner .....	74	57	3	36	39 45	50	38 95	12 98	1 08	49	69	43	
Miner .....	76	66	3	41	39 35	75	38 60	12 87	94	54	62	42	
Miner .....	77	36	3	20	35 75	50	35 25	11 75	1 76	26	56	38	
Miner .....	77	36	3	33	35 45	75	34 70	11 56	1 05	43	92	38	
Miner .....	78	61	3	25	35 00	50	34 50	11 50	1 38	32	41	38	
Miner .....	52	31	2	30	92 45	50	91 95	45 87	3 07	58	97	1 51	
Miner .....	52	31	2	29	88 50	50	88 00	44 00	3 03	56	94	1 44	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	52	47	2	47	\$85 45	\$0 50	\$84 95	\$42 47	\$1 81	90	100	\$1 39
Miner.....	52	49	2	42	83 60	50	83 10	41 55	1 98	81	86	1 36
Miner.....	52	47	2	44	83 20	50	82 70	41 35	1 88	85	94	1 86
Miner.....	52	49	2	37	80 10	50	79 60	39 80	2 15	71	76	1 39
Miner.....	52	49	2	42	79 10	50	78 60	39 30	1 87	81	89	1 29
Miner.....	50	46	2	37	78 95	50	78 45	39 22	2 12	74	80	1 29
Miner.....	51	35	2	31	78 90	50	78 40	39 20	2 23	61	89	1 29
Miner.....	51	35	2	35	78 70	50	78 20	39 10	2 23	69	100	1 28
Miner.....	51	35	2	35	78 70	50	78 20	39 10	2 23	69	100	1 28
Miner.....	51	35	2	35	77 75	65	77 10	38 55	2 20	69	100	1 26
Miner.....	51	35	2	34	76 40	50	75 90	37 95	2 23	67	91	1 24
Miner.....	52	47	2	35	75 70	50	75 20	37 60	2 15	74	74	1 23
Miner.....	52	49	2	41	72 35	50	71 85	35 92	1 75	79	84	1 18
Miner.....	52	47	2	46	71 55	50	71 05	35 52	1 55	88	98	1 16
Miner.....	52	31	2	30	68 45	50	67 95	33 97	2 26	58	97	1 11
Miner.....	52	31	2	27	68 10	50	67 60	33 80	2 50	52	87	1 11
Miner.....	52	47	2	43	67 70	50	67 20	33 60	1 56	85	91	1 10
Miner.....	52	48	2	35	65 10	50	64 60	32 30	1 85	67	73	1 09
Miner.....	51	35	2	28	63 95	50	63 45	31 72	2 27	55	80	1 04
Miner.....	52	31	2	30	62 80	60	62 20	31 10	2 07	58	97	1 02
Miner.....	52	31	2	28	61 80	50	61 30	30 65	2 19	54	90	1 00
Miner.....	51	35	2	27	61 80	50	61 30	30 65	2 27	53	77	1 00
Miner.....	51	35	2	34	61 50	50	61 00	30 50	1 79	67	97	1 00
Miner.....	51	35	2	31	60 40	50	59 90	29 95	1 93	61	89	98
Miner.....	52	49	2	25	60 05	50	59 55	29 97	2 28	48	51	98
Miner.....	52	31	2	30	59 90	50	59 40	29 70	1 98	58	97	97
Miner.....	52	31	2	30	59 80	50	59 30	29 65	1 98	58	97	97
Miner.....	51	35	2	30	58 65	50	58 15	29 07	1 94	59	86	95
Miner.....	51	35	2	30	58 65	50	58 15	29 07	1 94	59	86	95
Miner.....	51	35	2	30	58 65	50	58 15	29 07	1 94	59	86	95
Miner.....	52	31	2	31	58 50	50	58 00	29 00	1 87	60	100	95
Miner.....	52	31	2	30	58 50	50	58 00	29 00	1 93	58	97	95
Miner.....	52	31	2	31	58 40	50	57 90	28 95	1 87	60	100	95
Miner.....	52	31	2	31	58 40	50	57 90	28 95	1 87	60	100	95
Miner.....	52	31	2	27	58 20	50	57 70	28 85	2 14	52	87	94
Miner.....	52	31	2	31	58 20	50	57 70	28 85	1 86	60	100	95
Miner.....	51	35	2	28	57 25	50	56 75	28 37	2 03	55	80	93
Miner.....	51	35	2	33	57 00	50	56 50	28 25	1 71	65	94	93
Miner.....	51	35	2	35	56 90	50	56 40	28 20	1 61	69	100	92
Miner.....	52	49	2	36	56 75	50	56 25	28 12	1 56	68	73	92
Miner.....	51	35	2	27	56 20	50	55 70	27 85	2 06	53	77	91
Miner.....	52	49	2	28	56 05	50	55 55	27 77	1 98	54	57	91
Miner.....	51	35	2	35	55 55	50	55 05	27 52	1 57	69	100	90
Miner.....	51	31	2	27	55 00	25	54 75	27 37	2 03	53	87	90
Miner.....	51	35	2	35	55 00	50	54 50	27 25	1 56	69	100	89
Miner.....	51	35	2	27	54 50	50	54 00	27 00	2 00	53	77	89
Miner.....	51	35	2	35	54 40	50	53 90	26 95	1 54	69	100	88
Miner.....	51	31	2	28	53 10	50	52 60	26 30	1 89	55	90	86
Miner.....	51	35	2	35	53 00	50	52 50	26 25	1 50	69	100	86
Miner.....	52	31	2	29	52 80	50	52 30	26 15	1 80	56	94	86

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days				Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	51	35	12	12	35	\$52 55	\$0 50	\$52 05	\$26 02	\$1 49	69	100	\$0 85
Miner.....	52	31	12	12	25	51 80	50	51 30	25 65	1 05	48	81	84
Miner.....	52	49	12	12	41	51 55	50	51 05	25 52	1 25	79	84	84
Miner.....	51	35	12	12	27	51 45	50	50 95	25 47	1 49	53	77	84
Miner.....	51	35	12	12	27	50 65	50	50 15	25 07	1 86	53	77	82
Miner.....	51	35	12	12	28	50 10	50	49 60	24 75	1 77	55	80	81
Miner.....	51	35	12	12	28	49 90	50	49 40	24 70	1 76	55	80	81
Miner.....	51	35	12	12	29	49 30	50	48 80	24 40	1 68	57	83	80
Miner.....	51	35	12	12	35	49 20	50	48 70	24 35	1 39	69	100	80
Miner.....	51	35	12	12	30	48 45	50	47 95	23 97	1 60	59	86	79
Miner.....	51	31	12	12	27	48 05	50	47 55	23 77	1 76	53	87	78
Miner.....	51	35	12	12	32	47 80	50	47 30	23 65	1 48	63	91	78
Miner.....	51	35	12	12	27	47 80	50	47 30	23 65	1 75	53	77	78
Miner.....	51	35	12	12	27	47 50	50	47 00	23 50	1 88	49	71	77
Miner.....	51	40	12	12	29	47 45	50	46 95	23 47	1 62	57	72	76
Miner.....	51	40	12	12	29	47 45	50	46 95	23 47	1 62	57	72	76
Miner.....	52	35	12	12	24	47 40	50	46 90	23 45	1 95	47	69	77
Miner.....	51	35	12	12	25	47 40	50	46 90	23 45	1 88	49	71	77
Miner.....	51	35	12	12	30	47 30	50	46 80	23 40	1 56	59	86	79
Miner.....	48	33	12	12	27	47 05	50	46 55	23 27	1 72	56	82	79
Miner.....	51	35	12	12	25	46 70	25	46 45	23 22	1 86	49	71	76
Miner.....	51	35	12	12	25	46 65	50	46 15	23 07	1 85	49	71	76
Miner.....	51	35	12	12	35	45 95	50	45 45	22 72	1 30	69	100	75
Miner.....	51	35	12	12	28	45 35	50	44 85	22 42	1 60	55	80	74
Miner.....	51	35	12	12	28	44 85	50	44 35	22 17	1 58	55	80	73
Miner.....	52	31	12	12	25	44 35	25	44 10	22 05	1 76	48	81	72
Miner.....	51	35	12	12	28	44 15	50	43 65	21 82	1 56	55	80	72
Miner.....	51	35	12	12	27	43 25	50	42 75	21 37	1 58	53	77	70
Miner.....	51	35	12	12	27	43 10	50	42 60	21 30	1 58	53	77	70
Miner.....	51	35	12	12	29	43 10	50	42 60	21 30	1 47	57	83	70
Miner.....	51	35	12	12	26	43 10	50	42 60	21 30	1 64	51	74	70
Miner.....	51	35	12	12	26	42 70	25	42 45	21 22	1 64	51	74	70
Miner.....	51	35	12	12	35	42 60	15	42 45	21 22	1 21	69	100	70
Miner.....	51	35	12	12	27	42 80	50	42 30	21 15	1 57	53	77	69
Miner.....	52	49	12	12	25	42 55	25	42 30	21 15	1 69	48	51	69
Miner.....	51	35	12	12	33	42 60	50	42 10	21 05	1 28	65	94	69
Miner.....	51	35	12	12	28	42 35	50	41 85	20 92	1 49	55	80	69
Miner.....	51	35	12	12	28	42 35	50	41 85	20 92	1 49	55	80	69
Miner.....	51	35	12	12	25	42 30	50	41 80	20 90	1 67	49	71	69
Miner.....	51	35	12	12	27	42 30	50	41 80	20 90	1 55	53	77	69
Miner.....	51	35	12	12	27	42 20	50	41 70	20 85	1 54	53	77	68
Miner.....	51	35	12	12	26	42 10	50	41 60	20 80	1 60	51	74	68
Miner.....	51	35	12	12	28	41 90	50	41 40	20 70	1 48	55	80	68
Miner.....	51	35	12	12	33	41 85	50	41 35	20 67	1 25	65	94	68
Miner.....	51	35	12	12	28	41 40	50	40 90	20 48	1 46	55	80	67
Miner.....	51	35	12	12	29	41 30	50	40 80	20 40	1 41	57	83	67
Miner.....	52	48	12	12	36	41 05	50	40 55	20 27	1 13	52	48	66
Miner.....	52	49	12	12	29	40 95	50	40 45	20 22	1 39	56	59	66
Miner.....	59	86	12	12	30	40 85	50	40 35	20 17	1 34	59	86	66
Miner.....	51	35	12	12	25	40 70	50	40 20	20 10	1 61	49	71	66



Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly récépissés for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days				Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	51	35	12	2	25	\$40 45	\$0 50	\$39 95	\$19 97	\$1 60	\$0 49	71	\$0 65
Miner.....	51	35	12	2	25	40 35	50	39 85	19 92	1 48	53	77	65
Miner.....	51	35	12	2	25	40 35	50	39 85	19 92	1 48	53	77	65
Miner.....	51	35	12	2	25	40 15	50	39 65	19 82	1 37	57	83	65
Miner.....	51	35	12	2	27	40 10	50	39 60	19 80	1 47	53	77	65
Miner.....	51	35	12	2	27	39 85	50	39 35	19 67	1 46	53	77	65
Miner.....	51	35	12	2	31	39 40	50	38 90	19 45	1 25	61	89	64
Miner.....	51	35	12	2	27	39 15	50	38 65	19 32	1 43	53	77	63
Miner.....	51	35	12	2	31	38 95	50	38 45	19 22	1 24	61	89	63
Miner.....	51	35	12	2	28	38 80	50	38 30	19 15	1 37	55	80	63
Miner.....	51	35	12	2	27	38 60	50	38 10	19 05	1 41	53	77	62
Miner.....	51	35	12	2	26	38 60	50	38 10	19 05	1 47	51	74	62
Miner.....	51	35	12	2	27	38 55	50	38 05	19 02	1 41	53	77	62
Miner.....	51	35	12	2	27	38 45	50	37 95	18 97	1 41	53	77	62
Miner.....	51	35	12	2	26	38 15	25	37 90	18 95	1 46	51	74	62
Miner.....	51	35	12	2	26	38 10	50	37 60	18 80	1 45	51	74	62
Miner.....	51	35	12	2	29	37 95	50	37 45	18 72	1 29	57	83	61
Miner.....	51	35	12	2	27	37 45	25	37 20	18 60	1 38	53	77	61
Miner.....	51	35	12	2	27	37 15	50	36 65	18 32	1 36	53	77	60
Miner.....	51	35	12	2	27	37 10	50	36 60	18 30	1 36	53	77	60
Miner.....	51	35	12	2	27	36 60	25	36 35	18 17	1 34	53	77	59
Miner.....	51	35	12	2	25	36 55	40	36 15	18 07	1 45	49	71	59
Miner.....	51	35	12	2	23	36 10	25	35 85	17 92	1 56	45	66	59
Miner.....	51	35	12	2	26	36 00	25	35 75	17 87	1 37	51	74	59
Miner.....	51	35	12	2	27	36 20	50	35 70	17 85	1 32	53	77	58
Miner.....	51	35	12	2	26	36 15	50	35 65	17 82	1 37	51	74	58
Miner.....	51	35	12	2	26	36 10	50	35 60	17 80	1 37	51	74	58
Miner.....	51	35	12	2	27	35 70	25	35 45	17 72	1 31	53	77	58
Miner.....	51	35	12	2	26	35 60	25	35 35	17 67	1 35	51	74	58
Miner.....	51	35	12	2	26	35 60	25	35 35	17 67	1 35	51	74	58
Miner.....	51	35	12	2	30	35 75	50	35 25	17 62	1 17	59	86	58
Miner.....	51	35	12	2	27	35 50	25	35 25	17 62	1 31	53	77	58
Miner.....	51	35	12	2	28	35 65	50	35 15	17 57	1 26	55	80	58
Miner.....	51	35	12	2	27	35 60	50	35 10	17 55	1 30	53	77	58
Miner.....	51	35	12	2	28	35 35	50	34 85	17 42	1 24	55	80	57
Miner.....	51	35	12	2	26	35 35	50	34 85	17 40	1 18	51	74	57
Miner.....	51	35	12	2	27	34 95	25	34 70	17 35	1 28	53	77	57
Miner.....	51	35	12	2	25	34 65	25	34 40	17 20	1 38	49	71	56
Miner.....	51	35	12	2	26	34 30	50	33 80	16 90	1 30	51	74	55
Miner.....	51	35	12	2	26	34 25	50	33 75	16 87	1 30	51	74	55
Miner.....	51	35	12	2	28	34 25	50	33 75	16 87	1 21	55	80	55
Miner.....	51	35	12	2	27	33 85	50	33 35	16 62	1 23	53	77	55
Miner.....	51	35	12	2	26	33 60	25	33 35	16 62	1 28	51	74	55
Miner.....	51	35	12	2	26	33 65	50	33 15	16 57	1 27	51	74	54
Miner.....	51	35	12	2	25	33 25	50	32 75	16 37	1 31	49	71	54
Miner.....	51	35	12	2	26	33 15	50	32 65	16 32	1 25	51	74	54
Miner.....	51	35	12	2	24	32 05	25	31 80	15 90	1 32	47	69	52
Miner.....	51	35	12	2	28	32 15	50	31 65	15 82	1 13	55	80	52
Miner.....	51	35	12	2	28	32 15	50	31 65	15 82	1 13	55	80	52
Miner.....	51	35	12	2	28	32 15	50	31 65	15 82	1 13	55	80	52

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Am't.			
Miner .....	51	35	2	19	\$32 65	\$0 50	\$31 55	\$15 77	\$1 66	37	61	\$0 52												
Miner .....	51	35	2	21	31 85	50	31 35	15 67	1 49	40	43	51												
Miner .....	51	35	2	26	31 30	25	31 05	15 52	1 19	51	74	51												
Miner .....	51	35	2	24	31 15	50	30 65	15 32	1 28	47	69	50												
Miner .....	51	35	2	23	30 35	25	30 10	15 05	1 31	45	66	49												
Miner .....	51	35	2	30	30 10	50	29 60	14 80	1 99	59	86	49												
Miner .....	52	31	2	22	29 85	30	29 55	14 77	1 34	42	71	48												
Miner .....	51	35	2	22	28 55	25	28 30	14 15	1 29	43	63	46												
Miner .....	51	35	2	21	28 40	25	28 15	14 07	1 34	41	60	46												
Miner .....	51	35	2	23	26 80	50	26 30	13 15	1 14	45	66	43												
Miner .....	51	35	2	22	26 35	50	25 85	12 92	1 18	43	63	42												
Miner .....	48	34	2	20	26 25	50	25 75	12 87	1 29	42	59	44												
Miner .....	52	41	2	21	25 90	50	25 40	12 70	1 21	40	51	47												
Miner .....	48	33	2	16	25 80	50	25 30	12 65	1 58	33	48	43												
Miner .....	49	35	2	27	25 35	25	25 10	15 55	1 93	55	77	43												
Miner .....	52	48	2	16	23 40	25	23 15	11 57	1 45	31	33	38												
Miner .....	51	35	2	14	21 10	50	20 60	10 30	1 47	27	40	34												
Miner .....	51	40	2	21	19 75	50	19 25	9 62	1 92	41	53	31												
Miner .....	26	19	1	19	45 90	25	45 65	45 65	2 40	73	100	1 52												
Miner .....	26	19	1	19	45 00	25	44 75	44 75	2 36	73	100	1 49												
Miner .....	26	19	1	19	42 75	25	42 50	42 50	2 24	73	100	1 42												
Miner .....	27	25	1	22	38 80	25	38 55	38 55	1 74	81	88	1 24												
Miner .....	26	19	1	15	37 95	25	37 70	37 70	2 51	58	79	1 22												
Miner .....	25	24	1	24	37 65	10	37 55	37 55	1 56	96	100	1 25												
Miner .....	26	19	1	18	35 95	25	35 70	35 70	1 98	69	95	1 19												
Miner .....	27	24	1	22	35 75	25	35 50	35 50	1 61	81	92	1 15												
Miner .....	27	24	1	24	35 00	25	34 75	34 75	1 45	89	100	1 12												
Miner .....	27	24	1	24	35 00	25	34 75	34 75	1 45	89	100	1 12												
Miner .....	27	25	1	24	35 00	25	34 75	34 75	1 45	89	96	1 12												
Miner .....	26	19	1	17	34 95	25	34 70	34 70	2 04	65	89	1 12												
Miner .....	26	19	1	18	33 35	25	33 10	33 10	1 84	69	95	1 07												
Miner .....	26	19	1	18	33 35	25	33 10	33 10	1 84	69	95	1 07												
Miner .....	26	19	1	19	33 05	25	32 80	32 80	1 73	73	100	1 09												
Miner .....	26	19	1	18	31 05	25	30 80	30 80	1 71	69	95	1 03												
Miner .....	26	19	1	19	30 80	25	30 55	30 55	1 61	73	100	1 02												
Miner .....	26	19	1	19	30 65	25	30 40	30 40	1 60	73	100	1 01												
Miner .....	27	24	1	23	30 65	25	30 40	30 40	1 32	85	96	98												
Miner .....	25	23	1	22	30 50	25	30 25	30 25	1 37	88	91	98												
Miner .....	25	23	1	22	30 50	25	30 25	30 25	1 37	88	91	98												
Miner .....	25	23	1	22	30 50	25	30 25	30 25	1 37	88	91	98												
Miner .....	27	24	1	20	30 35	25	30 10	30 10	1 50	74	83	97												
Miner .....	26	19	1	19	29 60	25	29 35	29 35	1 54	73	100	98												
Miner .....	26	19	1	19	28 80	25	28 55	28 55	1 50	73	100	95												
Miner .....	26	19	1	19	27 85	25	27 60	27 60	1 45	73	100	92												
Miner .....	26	19	1	16	27 85	25	27 60	27 60	1 72	62	84	92												
Miner .....	26	19	1	13	26 60	25	26 35	26 35	2 03	50	68	85												
Miner .....	26	19	1	19	26 35	25	26 10	26 10	1 37	73	100	87												
Miner .....	26	19	1	19	26 20	25	25 95	25 95	1 37	73	100	87												
Miner .....	26	19	1	13	26 05	25	25 80	25 80	1 98	50	68	83												
Miner .....	26	12	1	12	25 55	25	25 30	25 30	2 11	46	100	84												

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	27	25	1	21	\$25 15	\$0 25	\$24 90	\$24 90	\$1 19	78	84	\$0 80
Miner .....	26	19	1	12	25 15	25	24 90	24 90	2 07	46	63	83
Miner .....	26	19	1	18	23 90	25	23 10	23 65	1 31	69	95	79
Miner .....	26	19	1	14	23 35	25	23 10	23 10	1 65	54	74	75
Miner .....	25	16	1	16	22 60	25	22 35	22 35	1 40	64	100	72
Miner .....	26	19	1	13	22 60	25	22 35	22 35	1 71	50	68	72
Miner .....	26	19	1	17	21 95	25	21 70	21 70	1 28	65	89	72
Miner .....	26	19	1	18	21 70	25	21 45	21 45	1 65	50	68	69
Miner .....	26	19	1	9	21 70	25	21 45	21 45	2 38	35	47	69
Miner .....	26	19	1	16	20 95	25	20 70	20 70	1 29	62	84	69
Miner .....	26	19	1	13	20 50	25	20 25	20 25	1 56	50	68	67
Miner .....	26	19	1	15	19 95	25	19 70	19 70	1 31	58	79	66
Miner .....	26	19	1	13	19 50	25	19 25	19 25	1 48	58	79	64
Miner .....	26	19	1	14	18 45	25	18 20	18 20	1 30	54	74	61
Miner .....	26	19	1	9	18 05	25	17 80	17 80	1 98	35	47	57
Miner .....	26	19	1	10	17 45	25	17 20	17 20	1 72	38	53	55
Miner .....	26	19	1	9	17 40	25	17 15	17 15	1 91	35	47	55
Miner .....	26	19	1	19	17 20	25	16 95	16 95	1 89	73	100	56
Miner .....	26	19	1	14	17 05	25	16 80	16 80	1 20	52	58	54
Miner .....	26	19	1	14	17 05	25	16 80	16 80	1 20	52	58	54
Miner .....	26	19	1	14	17 05	25	16 80	16 80	1 20	52	58	54
Miner .....	27	25	1	20	16 45	25	16 20	16 20	1 81	74	80	52
Miner .....	26	19	1	11	16 30	25	16 05	16 05	1 46	42	58	54
Miner .....	27	25	1	11	15 65	25	15 40	15 40	1 40	41	44	50
Miner .....	26	17	1	14	15 15	25	14 90	14 90	1 06	54	82	48
Miner .....	25	24	1	11	14 35	25	14 10	14 10	1 28	44	46	47
Miner .....	27	24	1	11	14 30	25	14 05	14 05	1 28	41	44	45
Miner .....	26	19	1	12	14 00	25	13 75	13 75	1 15	46	63	44
Miner .....	26	19	1	10	13 80	25	13 55	13 55	1 35	38	53	44
Miner .....	27	24	1	11	13 40	25	13 15	13 15	1 20	41	46	42
Miner .....	27	24	1	11	13 40	25	13 15	13 15	1 20	41	46	42
Miner .....	27	24	1	8	13 40	25	13 15	13 15	1 64	30	33	42
Miner .....	25	23	1	9	12 65	25	12 65	12 65	1 41	36	39	40
Miner .....	25	16	1	9	12 65	25	12 40	12 40	1 38	36	56	40
Miner .....	26	19	1	11	12 45	25	12 20	12 20	1 11	42	58	40
Miner .....	26	19	1	9	12 00	25	11 75	11 75	1 31	36	46	38
Miner .....	26	17	1	7	11 85	25	11 60	11 60	1 66	27	41	37
Miner .....	26	19	1	9	11 55	25	11 30	11 30	1 26	35	47	36
Miner .....	25	24	1	8	11 00	25	11 00	11 00	1 38	32	33	37
Miner .....	27	24	1	9	11 25	25	11 00	11 00	1 23	33	38	35
Miner .....	27	24	1	9	11 25	25	11 00	11 00	1 22	33	38	35
Miner .....	25	23	1	11	10 85	25	10 60	10 60	96	44	48	34
Miner .....	26	17	1	10	7 60	25	7 60	7 60	76	38	59	26
Miner .....	26	23	1	9	7 75	25	7 50	7 50	83	36	39	24

Table XVIII.—Continued.

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work. ....		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High est.	High est.	Low est.	Am't.	Am't.	Am't	Time	Am't.										
Boss, night.....	306	224	12	365	\$80 00	.....	.....	\$982 50	\$81 88	\$2 69	119	\$2 69										
Boss, day .....	204	164	8	203	90 00	.....	.....	606 00	75 75	2 99	95	\$2 49										
Boss, day .....	156	109	6	158	90 00	.....	.....	474 00	79 00	3 00	101	\$2 58										
Carpenter, boss .....	306	224	12	306	75 00	.....	.....	900 00	75 00	2 94	100	\$2 47										
Carpenter.....	306	224	12	343 3/4	.....	\$2 00	\$1 60	685 20	57 10	2 00	112	1 88										
Carpenter .....	104	78	4	92	.....	2 75	.....	254 35	63 59	2 75	88	\$2 07										
Carpenter .....	77	54	3	80 1/2	.....	2 75	.....	221 35	73 78	2 75	105	41										
Carpenter .....	25	5	1	8 1/2	.....	1 75	.....	14 85	14 85	1 75	36	48										
Blacksmith.....	306	224	12	328 3/4	.....	2 25	.....	739 65	61 64	2 25	108	\$2 03										
Blacksmith.....	306	224	12	211 1/2	.....	2 00	1 54	416 00	34 67	1 97	69	1 14										
Weighman.....	306	224	12	363	60 00	.....	.....	720 00	60 00	1 98	119	1 98										
Engineer.....	306	224	12	363	55 00	.....	.....	660 00	55 00	1 82	119	1 81										
Engineer.....	306	224	12	358	55 00	.....	.....	634 75	52 90	1 83	117	1 74										
Engineer.....	51	35	2	51	55 00	.....	.....	92 25	46 12	1 81	100	1 51										
Teamster.....	306	224	12	365	50 00	.....	.....	600 00	50 00	1 64	119	1 64										
Teamster.....	306	224	12	303 1/2	.....	1 60	.....	486 40	40 53	1 60	99	1 33										
Tracklayer.....	306	224	12	328	.....	3 00	1 65	787 60	65 65	2 40	107	2 16										
Section boss .....	306	224	12	306	45 00	.....	.....	540 00	45 00	1 76	100	1 48										
Section man .....	229	170	9	187 1/2	.....	1 25	.....	234 90	26 10	1 25	82	86										
Section man .....	76	63	3	71	.....	1 25	.....	88 75	29 58	1 25	93	96										
Section man .....	77	70	3	56	.....	1 25	.....	70 00	24 33	1 25	73	76										
Section man .....	52	47	2	15 1/2	.....	1 50	1 25	19 65	9 82	1 26	31	32										
Section man .....	25	16	1	24	.....	1 25	.....	30 00	30 00	1 25	96	97										
Section man .....	26	19	1	13	.....	1 25	.....	16 25	16 25	1 25	50	52										
Section man .....	27	24	1	8 1/2	.....	1 25	.....	10 65	10 65	1 25	33	34										
Fireman.....	280	205	11	314	45 00	1 50	.....	468 85	42 64	1 49	112	1 40										
Fireman.....	206	153	8	174	.....	1 50	.....	261 00	32 63	1 50	84	1 07										
Switchman.....	306	224	12	202 1/4	.....	1 60	.....	323 60	26 97	1 60	66	89										
Prospector.....	229	170	9	83	.....	2 00	1 75	162 05	18 01	1 95	36	59										
Driver, boss .....	306	224	12	321 1/2	.....	2 25	.....	722 60	60 22	2 25	105	1 98										
Driver.....	306	224	12	297	.....	1 75	1 25	494 10	41 18	1 66	97	1 36										
Driver.....	306	224	12	278 3/4	.....	1 70	1 60	453 75	37 81	1 63	91	1 24										
Driver.....	306	224	12	242 1/4	.....	1 70	1 40	387 05	32 25	1 59	79	1 06										
Driver.....	306	224	12	246	.....	1 60	1 50	381 70	31 81	1 55	80	1 05										
Driver.....	306	224	12	201 1/2	.....	1 75	1 40	343 10	28 59	1 70	66	94										
Driver.....	306	224	12	197 1/4	.....	1 75	1 65	338 70	28 23	1 71	64	93										
Driver.....	306	224	12	196 3/4	.....	1 75	1 50	333 50	27 79	1 70	64	91										
Driver.....	306	224	12	226 3/4	.....	1 60	1 40	231 30	26 78	1 42	74	88										
Driver.....	306	224	12	182 1/2	.....	1 65	1 60	294 45	24 54	1 61	60	87										
Driver.....	306	224	12	188	.....	1 60	1 50	293 25	24 44	1 55	61	80										
Driver.....	306	224	12	180 1/4	.....	1 30	1 10	222 55	18 55	1 22	59	61										
Driver.....	306	224	12	185 3/4	.....	1 25	1 10	221 95	18 50	1 19	61	61										
Driver.....	306	224	12	172 1/4	.....	1 40	1 10	218 65	18 22	1 27	56	60										
Driver.....	306	224	12	157 1/2	.....	2 00	1 10	201 00	16 75	1 27	52	55										

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days				High-est.	High-est.	Low-est.					
Driver .....	306	224	12	170				\$1 25	\$1 10	\$200 50	\$16 71	\$1 18	56	\$0 55	
Driver .....	306	224	12	168				1 25	1 10	199 45	16 62	1 18	55	55	
Driver .....	306	224	12	178				1 25	85	198 60	16 55	1 11	58	54	
Driver .....	280	212	11	219				2 00	1 40	430 80	39 16	1 96	78	1 29	
Driver .....	280	212	11	168				1 65	1 60	271 60	24 70	1 62	60	81	
Driver .....	280	212	11	150				1 60		255 60	23 24	1 60	54	76	
Driver .....	279	199	11	163				2 00	1 40	216 85	22 44	1 51	58	74	
Driver .....	281	219	11	169				1 30	1 10	213 15	19 38	1 27	60	64	
Driver .....	280	212	11	100				2 00	1 60	184 50	16 77	1 85	36	55	
Driver .....	254	186	10	216		\$55 00		1 50		384 00	38 40	1 78	85	1 26	
Driver .....	254	193	10	150½				1 65		248 10	24 81	1 65	59	82	
Driver .....	230	161	9	190				1 75	1 70	327 20	36 36	1 72	87	1 20	
Driver .....	228	157	9	111½				1 65	1 60	177 90	19 78	1 60	49	65	
Driver .....	228	159	9	100				2 00	1 50	168 55	18 73	1 69	44	62	
Driver .....	203	158	8	123				1 50		184 50	23 06	1 50	61	74	
Driver .....	202	163	8	116½				1 30	1 15	143 05	17 88	1 23	58	59	
Driver .....	202	163	8	122½				1 20	1 10	142 25	17 78	1 16	60	59	
Driver .....	203	169	8	113				1 25	1 15	136 45	17 06	1 21	56	75	
Driver .....	177	139	7	102½				1 50		153 75	21 96	1 50	58	73	
Driver .....	177	139	7	84				1 75		147 30	21 04	1 75	47	69	
Driver .....	177	139	7	104				1 20	1 10	117 05	16 72	1 12	58	55	
Driver .....	151	128	6	94½				1 60		151 20	25 20	1 60	63	88	
Driver .....	151	120	6	86				1 60	1 50	131 50	21 92	1 53	57	72	
Driver .....	153	118	6	72				1 70	1 60	117 70	19 62	1 64	47	64	
Driver .....	125	92	5	54				1 20		62 65	12 53	1 16	43	41	
Driver .....	103	66	4	84				1 25		105 00	26 25	1 25	82	86	
Driver .....	104	61	4	38½				1 40		53 90	13 48	1 40	37	44	
Driver .....	77	70	3	65				1 75	1 25	107 00	35 67	1 65	84	1 16	
Driver .....	79	73	3	58½				1 50	1 40	85 50	28 50	1 47	98	93	
Driver .....	77	70	3	67				1 50	1 25	85 05	28 35	1 27	87	92	
Driver .....	77	54	3	32½				1 40	1 10	36 45	12 15	1 13	42	40	
Driver .....	52	48	2	19				2 00		38 00	19 00	2 00	37	62	
Driver .....	51	17	2	19				1 75	1 50	30 75	15 37	1 62	37	50	
Driver .....	52	31	2	26½				1 15		30 20	15 10	1 15	50	49	
Driver .....	52	30	2	27½				1 70	1 10	29 95	14 97	1 10	52	48	
Driver .....	26	19	1	27¾				1 75		48 55	48 55	1 75	108	1 57	
Driver .....	26	19	1	20½				1 50		30 75	30 75	1 50	81	99	
Driver .....	25	23	1	23				1 25		28 75	28 75	1 25	92	93	
Driver .....	25	23	1	23				1 25		28 75	28 75	1 25	92	93	
Driver .....	27	24	1	21½				1 25		26 85	26 85	1 25	81	87	
Driver .....	26	19	1	16½				1 60		26 00	26 00	1 60	62	84	
Driver .....	23	17	1	20				1 25		25 00	25 00	1 25	87	89	
Driver .....	27	25	1	15				1 60		24 00	24 00	1 60	56	77	
Driver .....	25	16	1	8				1 75		14 00	14 00	1 75	32	45	
Driver .....	26	19	1	8½				1 40		11 55	11 55	1 40	31	37	
Driver .....	25	5	1	5				1 25		6 25	6 25	1 25	20	20	
Timberman .....	306	224	12	316				2 25	2 00	693 90	57 83	2 20	103	1 91	
Timberman .....	306	224	12	325½				2 25	2 00	679 75	56 65	2 09	107	1 86	
Timberman .....	306	224	12	319½				2 25	2 00	652 95	54 41	2 05	104	1 79	
Timberman .....	306	224	12	276¾				2 00		553 50	46 12	2 00	91	1 52	
Timberman .....	306	224	12	250½				2 25	2 00	552 00	46 00	2 21	82	1 51	

Table XVIII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days				High-est.	High-est.	Low-est.					
Timberman....	306	224	12	182				\$2 00	\$1 65	\$323 05	\$26 84	\$1 77	59	\$0 88	
Timberman....	228	174	9	219%				2 25		488 05	53 23	2 22	96	1 78	
Timberman....	206	153	8	176%				2 00		352 50	44 06	2 00	85	1 44	
Timberman....	129	85	5	144%				2 00	1 50	256 50	51 30	1 77	112	1 68	
Timberman....	128	111	5	124				2 00		248 00	49 60	2 00	97	1 62	
Timberman....	125	92	5	97				2 00		194 00	38 80	2 00	78	1 28	
Timberman....	130	90	5	74%				2 25	2 00	159 25	31 85	2 13	58	1 04	
Timberman....	99	73	4	81				2 00		162 00	40 50	2 00	82	1 34	
Timberman....	79	73	3	52				2 00	1 75	102 25	34 08	1 97	66	1 11	
Timberman....	52	47	2	30%				3 00	2 00	67 50	33 75	2 21	60	1 11	
Timberman....	25	23	1	24				2 00		48 00	48 00	2 00	96	1 60	
Timberman....	26	19	1	18				2 00		36 00	36 00	2 00	69	1 16	
Timberman....	26	19	1	18				2 00		36 00	36 00	2 00	69	1 16	
Timberman....	25	16	1	7%				2 00		15 00	15 00	2 00	32	50	
Timberman....	25	5	1	7%				2 00		14 50	14 50	2 00	28	47	
Timberman....	25	24	1	7%				2 00		14 50	14 50	2 00	28	48	
Mule tender....	306	224	12	365		\$50 00				596 80	49 73	1 64	119	1 64	
Laborer.....	306	224	12	222%				1 75	1 50	383 70	31 98	1 72	73	1 05	
Laborer.....	306	224	12	213%				1 75	1 50	333 90	27 83	1 56	70	91	
Laborer.....	306	224	12	206				1 50		309 05	25 75	1 50	67	85	
Laborer.....	306	224	12	198%				1 50		290 60	24 22	1 50	63	80	
Laborer.....	283	207	11	229%				1 75	1 25	380 90	34 63	1 66	81	1 13	
Laborer.....	280	205	11	223				2 00	1 25	377 80	34 35	1 69	80	1 13	
Laborer.....	280	205	11	236				1 50	1 25	323 15	29 38	1 37	84	97	
Laborer.....	280	205	11	140%				1 75	1 60	235 30	21 39	1 67	50	70	
Laborer.....	281	201	11	138½				1 75	1 50	228 60	20 78	1 65	49	68	
Laborer.....	255	200	10	159				1 25	1 00	171 50	17 15	1 07	62	56	
Laborer.....	229	188	9	208%				1 60	1 25	304 00	33 78	1 50	89	1 11	
Laborer.....	177	139	7	108				1 50		161 95	21 71	1 50	61	76	
Laborer.....	124	96	5	134				1 75		231 50	46 90	1 75	108	1 55	
Laborer.....	130	90	5	128%				2 00	1 75	232 10	46 42	1 81	99	1 45	
Laborer.....	129	85	5	134%				1 75	1 50	217 95	43 49	1 61	104	1 42	
Laborer.....	102	60	4	46				1 50		72 95	18 24	1 59	45	60	
Laborer.....	77	36	3	61%				2 00	1 25	84 50	28 17	1 37	81	92	
Laborer.....	77	36	3	50%				1 50		76 10	25 37	1 49	66	83	
Laborer.....	77	71	3	41				1 50		61 45	20 48	1 45	55	67	
Laborer.....	52	48	2	44				1 50		64 50	32 25	1 47	85	1 06	
Laborer.....	52	31	2	24%				1 75	1 50	39 05	19 52	1 56	48	64	
Laborer.....	52	31	2	17%				1 75		30 60	15 30	1 75	33	50	
Laborer.....	25	24	1	24%				1 75	1 50	39 75	39 75	1 62	100	1 33	
Laborer.....	25	5	1	20%				1 75		36 30	36 30	1 75	84	1 17	
Laborer.....	26	19	1	8%				1 75		15 30	15 30	1 75	35	50	
Laborer.....	26	19	1	7%				2 00		14 50	14 50	2 00	27	47	
Laborer.....	27	25	1	8½				1 50		12 75	12 75	1 50	33	41	
Laborer.....	26	12	1	7%				1 50		10 85	10 85	1 50	27	36	
Laborer.....	27	25	1	7				1 50		10 50	10 50	1 50	26	34	

Table XVIII.—Continued.

OCCUPATION.	Possible working time omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days	Mos.	Days	High- est.	High- est.	Low- est.	Am't.	Am't.	Am't	Time	Am't.		
Trapper.....	306	224	12	179½	.....	\$1 20	\$0 85	\$184 30	\$15 36	\$1 02	58	\$0 50		
Trapper.....	305	224	12	181½	.....	85	.....	154 10	12 84	85	59	42		
Trapper.....	254	198	10	140	.....	85	.....	119 05	11 90	85	55	33		
Trapper.....	229	188	9	142	.....	1 00	85	124 50	13 63	87	58	46		
Trapper.....	202	163	8	124	.....	85	.....	105 45	13 18	85	61	44		
Trapper.....	202	163	8	114	.....	85	.....	96 95	12 12	85	56	40		
Trapper.....	52	31	2	25¼	.....	85	.....	21 45	10 72	85	48	35		
Oiler.....	177	139	7	94½	.....	1 00	85	90 95	12 99	96	54	43		
Oiler.....	77	70	3	43½	.....	1 00	.....	43 50	14 50	1 00	57	47		
Oiler.....	49	34	2	15	.....	1 25	.....	18 75	9 37	1 25	31	32		

## RECAPITULATION—Establishment VII.

## MINERS, PAID BY THE TON.

No. OF MEN.	No. of months on the pay- roll.	Gross earnings.	Deduc- tions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
265...	12 Months...	\$97,910 55	\$765 30	\$97,145 25	\$366 58	\$30 55	68.8	\$1 74	\$1 00
50...	11 .....	16,998 10	132 85	16,865 25	337 30	30 67	67.8	1 77	1 01
25...	10 .....	7,207 90	56 10	7,151 80	286 07	28 60	69.	1 67	94
50...	9 .....	12,574 10	104 70	12,469 40	249 39	27 71	64.9	1 58	91
33...	8 .....	7,650 25	61 05	7,589 20	229 98	28 74	69.	1 65	96
49...	7 .....	9,926 70	80 70	9,846 00	200 94	28 70	68.8	1 65	94
49...	6 .....	7,537 90	68 05	7,469 85	152 45	25 41	65.2	1 56	84
48...	5 .....	5,726 85	52 10	5,674 75	118 22	23 64	62.	1 52	78
47...	4 .....	4,239 05	40 70	4,198 35	89 33	23 33	60.8	1 47	74
77...	3 .....	5,210 20	50 50	5,159 70	67 01	23 34	58.2	1 55	76
170...	2 .....	7,984 10	78 60	7,905 50	46 50	23 26	56.	1 62	76
77...	1 .....	1,784 45	18 35	1,766 10	22 94	23 94	57.9	1 52	76
940...	.....	\$184,750 15	\$1,509 00	\$183,241 15	.....	\$28 60	66.9	\$1 68	\$0 94

## OTHER EMPLOYÉES, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.  Days.	Net earnings.	AVERAGES.			
				Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Pit-bosses (day).....	2	14 mos.	\$1,080 00	\$77 37	100	\$3 00	\$2 53
Pit-boss (night).....	1	12 mos.	982 50	81 88	100	2 69	2 49
Boss carpenter.....	1	12 mos.	900 00	75 00	100	2 94	2 47
Carpenters.....	4	524%	1,175 75	52 33	85	2 31	1 71
Blacksmiths.....	2	540%	1,155 65	48 15	88	2 11	1 58
Engineers.....	3	772	1,387 00	51 34	100	1 82	1 35
Firemen.....	2	488	729 85	37 64	98	1 50	1 25
Weighman.....	1	12 mos.	720 00	60 00	100	3 21	1 98
Teamsters.....	2	668%	1,086 40	45 25	100	1 62	1 48
Tracklayer.....	1	328	787 60	65 65	100	2 40	1 07
Prospector.....	1	83	162 05	18 01	36	1 95	1 59
Boss driver.....	1	321%	722 60	64 22	100	2 25	1 98
Drivers.....	60	6,902%	10,371 50	25 77	79	1 50	77
Mule-tender.....	1	365	596 80	49 73	100	1 64	1 64
Section-boss.....	1	12 mos.	540 00	45 00	100	1 76	1 48
Sectionmen.....	7	375%	470 20	20 82	65	1 25	69
Switchman.....	1	202%	328 60	26 97	66	1 60	1 89
Timbermen.....	21	2,752	5,648 20	39 50	76	2 05	1 30
Laborers.....	29	3,039%	4,754 10	26 17	64	1 56	86
Trappers, boys.....	7	906	805 80	12 82	53	1 89	41
Oilers, boys.....	3	153	153 20	12 28	47	1 00	41
	151	20,122%	\$34,552 80				



TABLE XIX.—Establishment VII.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Under \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'nts	9	34	76	98	81	13	4	.....	.....	.....	.....	.....	.....	265
11 "	1	4	15	22	5	3	.....	.....	.....	.....	.....	.....	.....	50
10 "	1	4	9	19	1	.....	.....	.....	.....	.....	.....	.....	.....	25
9 "	2	11	23	9	5	.....	.....	.....	.....	.....	.....	.....	.....	50
8 "	.....	5	18	7	3	.....	.....	.....	.....	.....	.....	.....	.....	33
7 "	2	10	15	15	7	.....	.....	.....	.....	.....	.....	.....	.....	49
6 "	5	19	13	11	1	.....	.....	.....	.....	.....	.....	.....	.....	49
5 "	11	22	10	3	2	.....	.....	.....	.....	.....	.....	.....	.....	48
4 "	18	15	10	3	1	.....	.....	.....	.....	.....	.....	.....	.....	47
3 "	34	20	12	7	4	.....	.....	.....	.....	.....	.....	.....	.....	77
2 "	68	45	32	9	11	4	1	.....	.....	.....	.....	.....	.....	170
1 "	34	11	9	15	5	2	1	.....	.....	.....	.....	.....	.....	77
Totals.	*185	200	242	200	76	22	6	.....	.....	.....	.....	.....	.....	†940

\*Average earnings \$16.56 for an average of 12.7 days' work.

†Average earnings of all men \$28.60 per month.

Number who earned more than the average, 353, or 37 per cent. of the whole.

Number who earned less than the average, 587, or 63 per cent. of the whole.

**TABLE XX.—Summaries of Results Shown by Monthly Pay-rolls.****ESTABLISHMENT VIII.—Coal Mine in Will County.**

CONDITIONS:—Depth of shaft, 47 feet; thickness of coal, 3 feet; working places, very wet; system of working, long-wall; mining done by hand; price of mining, 95 cents a ton for screened coal; screen bars  $\frac{3}{4}$  of an inch apart; check-weighman at the scale; amount of brushing required, 24 inches; operations suspended March 1, for lack of trade.

**COAL MINERS, PAID BY THE TON.**

MONTHS.	Possible working time omitting Sundays and holidays.											Actual running time of the mine.	Whole number of men on the pay-roll during the month.	Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.	Average net earnings per man per month.	Average net earnings per man per day.	Average number of tons mined per man per day.	Average number of days' work performed per man.	Number of men required to produce same tonnage if at work full running time.
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.										
May .....	26	20	265	4,730	10,070	\$9,707 27	\$36 63	\$2 05	2.13	17.8	237										
June .....	26	17	285	4,381	10,571	10,126 41	35 55	2 31	2.41	15.4	258										
July .....	25	23	287	4,871	10,108	9,730 85	33 90	2 00	2.08	17.	212										
August .....	27	23	298	6,028	13,738	13,239 63	44 43	2 20	2.28	20.2	262										
September.....	25	24	312	6,630	14,573	13,991 79	44 85	2 11	2.20	21.3	276										
October.....	27	27	325	7,709	17,685	17,155 88	52 79	2 23	2.29	23.7	286										
November .....	25	22	320	6,532	13,139	12,577 51	39 30	1 93	2.01	20.4	297										
December.....	25	21	331	6,309	12,462	11,953 90	36 11	1 89	1.98	19.1	306										
January .....	26	18	309	5,157	10,670	10,231 33	33 11	1 98	2.07	16.7	287										
February.....	23	18	264	4,416	10,917	10,409 69	39 43	2 36	2.47	16.7	245										
March.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....										
April.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....										
The year.....	255	213	457	56,763	123,933	\$119,124 26	\$39 76	\$2 10	2.18	18.9	266										
Monthly Avs..	25.5	21	300	5,676	12,393	11,912 42	39 76	2 10	41.37	18.94	266										

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	20	55	1,179 $\frac{1}{4}$	.....	\$1,998 85	\$36 34	\$1 69	.....	21.4	.....
June .....	26	17	58	1,141 $\frac{1}{4}$	.....	1,939 35	33 44	1 70	.....	19.7	.....
July .....	25	23	63	1,340 $\frac{3}{4}$	.....	2,247 50	35 67	1 68	.....	21.3	.....
August .....	27	23	69	1,516 $\frac{1}{2}$	.....	2,541 30	36 82	1 63	.....	22.	.....
September .....	25	24	68	1,448 $\frac{1}{2}$	.....	2,422 60	35 63	1 67	.....	21.3	.....
October .....	27	27	65	1,551	.....	2,568 25	39 51	1 66	.....	23.9	.....
November .....	25	22	65	1,282 $\frac{3}{4}$	.....	2,190 25	33 70	1 71	.....	19.7	.....
December .....	25	21	64	1,280	.....	2,201 75	34 40	1 72	.....	20.	.....
January .....	26	18	62	1,033	.....	1,800 40	29 04	1 74	.....	16.7	.....
February .....	23	18	53	964	.....	1,696 50	32 00	1 75	.....	18.2	.....
March .....	25	25	43	774 $\frac{1}{4}$	.....	1,276 90	29 70	1 65	.....	18.	.....
April .....	26	26	38	725 $\frac{3}{4}$	.....	1,182 80	31 13	1 63	.....	19.1	.....
The year .....	306	264	109	14,237 $\frac{1}{4}$	.....	\$24,066 45	\$34 23	\$1 69	41.37	20.6	.....
Monthly Avs..	25.5	22	59	1,185	.....	2,005 54	34 23	1 69	.....	20.6	.....
Totals .....	561	477	*566	71,000 $\frac{1}{4}$	123,933	\$143,190 71	.....	.....	41 37	.....	.....
General Av..	25.5	21.7	359	6,861	12,333	13,917 96	\$38 71	\$2 02	2.18	19.2	.....

\*In addition to these, 40 transient miners and miners' sons worked 2,399 days during the year, mining 4,740 tons and earning \$4,463; and 40 laborers worked 264 days and earned \$389.

**TABLE XXI.—Individual Earnings and Working Time.**ESTABLISHMENT VIII.—*Coal Mine in Will County.**Conditions of employment given at the head of preceding table.*

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am t.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	255	213	10	211	\$607 49	\$3 45	\$604 04	\$60 40	\$2 86	83	99	\$1 99
Miner.....	255	213	10	207	551 70	2 50	549 20	54 92	2 65	81	97	1 81
Miner.....	255	213	10	195	536 30	2 50	533 80	53 38	2 74	76	92	1 76
Miner.....	255	213	10	198	527 50	2 50	525 00	52 50	2 65	77	93	1 73
Miner.....	255	213	10	191	522 78	3 04	519 74	51 97	2 72	75	90	1 71
Miner.....	255	213	10	197	518 25	2 50	515 75	51 57	2 62	77	92	1 70
Miner.....	255	213	10	196	515 55	2 50	513 05	51 30	2 62	77	92	1 69
Miner.....	255	213	10	186	511 95	2 50	509 45	50 94	2 74	73	87	1 68
Miner.....	255	213	10	197	511 25	2 50	508 75	50 87	2 58	77	92	1 67
Miner.....	255	213	10	209	509 60	2 50	507 10	50 71	2 43	82	98	1 66
Miner.....	255	213	10	193	507 81	2 34	505 47	50 54	2 62	75	91	1 66
Miner.....	255	213	10	205	500 05	2 50	497 55	49 75	2 43	80	96	1 64
Miner.....	255	213	10	203	497 45	2 50	494 95	49 49	2 44	80	95	1 62
Miner.....	255	213	10	208	492 35	2 50	489 85	48 98	2 36	82	98	1 61
Miner.....	255	213	10	207	491 45	2 50	488 95	48 89	2 36	81	97	1 61
Miner.....	255	213	10	205	486 45	2 50	483 95	48 39	2 36	80	96	1 59
Miner.....	255	213	10	211	480 05	2 50	477 55	47 75	2 26	83	99	1 57
Miner.....	255	213	10	207	479 15	2 50	476 65	47 66	2 30	81	97	1 57
Miner.....	255	213	10	185	476 61	2 50	474 10	47 41	2 56	72	87	1 56
Miner.....	255	213	10	203	475 60	2 50	473 10	47 31	2 33	80	95	1 56
Miner.....	255	213	10	207	472 85	2 50	470 35	47 03	2 27	81	97	1 55
Miner.....	255	213	10	198	471 85	2 50	469 35	46 93	2 37	78	93	1 54
Miner.....	255	213	10	202	469 55	2 50	467 05	46 70	2 31	79	95	1 54
Miner.....	255	213	10	199	469 30	2 50	466 80	46 68	2 35	78	93	1 54
Miner.....	255	213	10	201	469 25	2 50	466 75	46 67	2 32	79	94	1 54
Miner.....	255	213	10	191	468 95	2 50	466 45	46 64	2 44	75	90	1 53
Miner.....	255	213	10	203	466 35	2 50	463 85	46 38	2 28	80	95	1 53
Miner.....	255	213	10	200	466 25	2 50	463 75	46 37	2 32	78	94	1 53
Miner.....	255	213	10	197	465 65	2 50	463 15	46 31	2 35	77	92	1 53
Miner.....	255	213	10	177	462 85	2 50	460 35	46 03	2 60	69	83	1 51
Miner.....	255	213	10	204	461 25	2 50	458 75	45 87	2 25	80	96	1 51
Miner.....	255	213	10	208	460 75	2 50	458 25	45 83	2 20	82	98	1 51
Miner.....	255	213	10	204	460 40	2 50	457 90	45 79	2 24	80	96	1 51
Miner.....	255	213	10	198	458 60	2 50	456 10	45 61	2 30	78	93	1 50
Miner.....	255	213	10	200	457 00	2 50	454 50	45 45	2 27	78	94	1 50
Miner.....	255	213	10	202	452 75	2 50	450 25	45 02	2 23	79	95	1 48
Miner.....	255	213	10	192	452 15	2 50	449 65	44 96	2 34	75	90	1 48
Miner.....	255	213	10	195	451 05	2 50	448 55	44 85	2 30	76	92	1 48
Miner.....	255	213	10	195	450 80	2 50	448 30	44 83	2 30	76	92	1 47
Miner.....	255	213	10	199	450 40	2 50	447 90	44 79	2 25	78	93	1 47
Miner.....	255	213	10	197	450 15	2 50	447 65	44 76	2 27	77	92	1 47
Miner.....	255	213	10	196	449 75	2 50	447 25	44 72	2 28	77	92	1 47
Miner.....	255	213	10	193	449 70	2 50	447 20	44 72	2 32	76	91	1 47
Miner.....	255	213	10	200	449 10	2 50	446 60	44 66	2 23	78	94	1 47
Miner.....	255	213	10	194	448 05	2 50	445 55	44 55	2 24	76	91	1 47

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner.....	255	213	10	195	\$445 25	\$2 50	\$442 75	\$44 27	\$2 28	76	91	\$1 46	
Miner.....	255	213	10	189	444 65	2 50	442 15	44 21	2 34	74	89	1 45	
Miner.....	255	213	10	190	444 26	2 89	441 37	44 14	2 32	75	89	1 45	
Miner.....	255	213	10	190	442 25	2 50	439 75	43 97	2 31	75	89	1 45	
Miner.....	255	213	10	208	440 85	2 50	438 35	43 83	2 11	82	98	1 44	
Miner.....	255	213	10	187	438 20	2 50	435 70	43 57	2 33	73	88	1 43	
Miner.....	255	213	10	189	437 85	2 50	435 35	43 53	2 30	74	89	1 43	
Miner.....	255	213	10	189	437 85	2 50	435 35	43 53	2 30	74	89	1 43	
Miner.....	255	213	10	189	437 85	2 50	435 35	43 53	2 30	74	89	1 43	
Miner.....	255	213	10	200	437 60	2 50	435 10	43 51	2 13	78	94	1 43	
Miner.....	255	213	10	189	434 55	2 50	432 05	43 20	2 29	74	89	1 42	
Miner.....	255	213	10	200	433 75	2 50	431 25	43 12	2 16	78	94	1 42	
Miner.....	255	213	10	204	433 25	2 50	430 75	43 07	2 11	80	96	1 42	
Miner.....	255	213	10	206	433 05	2 50	430 55	43 05	2 09	81	97	1 42	
Miner.....	255	213	10	197	432 25	2 50	429 75	42 97	2 18	77	92	1 41	
Miner.....	255	213	10	204	431 80	2 50	429 30	42 93	2 10	80	96	1 41	
Miner.....	255	213	10	186	429 95	2 50	427 45	42 74	2 30	73	87	1 41	
Miner.....	255	213	10	207	429 05	2 50	426 55	42 65	2 06	81	97	1 40	
Miner.....	255	213	10	201	429 00	2 50	426 50	42 65	2 12	79	94	1 40	
Miner.....	255	213	10	205	428 40	2 50	425 90	42 59	2 08	80	96	1 40	
Miner.....	255	213	10	198	427 65	2 50	425 15	42 51	2 15	77	93	1 40	
Miner.....	255	213	10	193	427 35	2 50	424 85	42 18	2 20	76	91	1 40	
Miner.....	255	213	10	198	424 35	2 50	421 85	42 18	2 13	78	93	1 39	
Miner.....	255	213	10	200	424 05	2 50	421 55	42 15	2 11	78	94	1 39	
Miner.....	255	213	10	207	422 70	2 50	420 20	42 02	2 03	81	97	1 38	
Miner.....	255	213	10	191	422 00	2 50	419 50	41 95	2 20	75	90	1 38	
Miner.....	255	213	10	201	421 60	2 50	419 10	41 91	2 09	79	94	1 38	
Miner.....	255	213	10	188	421 25	2 50	418 75	41 87	2 23	74	88	1 38	
Miner.....	255	213	10	195	418 50	2 50	416 00	41 60	2 13	76	92	1 37	
Miner.....	255	213	10	205	418 50	2 50	416 00	41 60	2 03	80	96	1 37	
Miner.....	255	213	10	200	417 65	2 50	415 15	41 51	2 08	78	94	1 37	
Miner.....	255	213	10	207	417 10	2 50	414 60	41 46	2 00	81	97	1 36	
Miner.....	255	213	10	187	415 75	2 50	413 25	41 32	2 21	73	88	1 36	
Miner.....	255	213	10	189	415 30	2 50	412 80	41 28	2 18	74	89	1 36	
Miner.....	255	213	10	198	414 00	2 50	411 50	41 15	2 08	78	93	1 35	
Miner.....	255	213	10	207	414 00	2 50	411 50	41 15	1 99	81	97	1 35	
Miner.....	255	213	10	204	412 55	2 50	410 05	41 00	2 01	80	96	1 35	
Miner.....	255	213	10	188	412 15	2 50	409 65	40 96	2 18	74	88	1 35	
Miner.....	255	213	10	203	410 05	2 50	407 55	40 75	2 01	80	95	1 34	
Miner.....	255	213	10	200	409 75	2 50	407 25	40 72	2 04	78	94	1 34	
Miner.....	255	213	10	205	408 90	2 50	406 40	40 64	1 98	80	96	1 34	
Miner.....	255	213	10	182	408 05	2 50	405 55	40 55	2 23	71	85	1 33	
Miner.....	255	213	10	194	407 00	2 50	404 50	40 45	2 08	76	91	1 33	
Miner.....	255	213	10	199	405 80	2 50	403 30	40 33	2 03	78	93	1 33	
Miner.....	255	213	14	192	404 85	2 50	402 35	40 23	2 10	75	90	1 32	
Miner.....	255	213	10	180	401 95	2 50	399 45	39 94	2 22	70	85	1 31	
Miner.....	255	213	10	176	399 65	2 50	397 15	39 71	2 26	69	83	1 31	
Miner.....	255	213	10	200	397 05	2 50	394 55	39 45	1 97	78	94	1 30	
Miner.....	255	213	10	193	397 00	2 50	394 50	39 45	2 04	76	91	1 30	
Miner.....	255	213	10	193	397 00	2 50	394 50	39 45	2 04	76	91	1 30	

Table XXI.—Continued.

OCCUPATION.	Possible working time omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Day.	Days											
Miner .....	255	213	10	199	\$396 70	\$2 50	\$394 20	\$39 42	\$1 98	78	93	\$1 30	
Miner .....	255	213	10	198	396 45	2 50	393 95	39 39	1 99	78	93	1 30	
Miner .....	255	213	10	198	396 40	2 50	393 90	39 39	1 99	78	93	1 30	
Miner .....	255	213	10	194	394 15	2 50	391 65	39 16	2 02	76	91	1 25	
Miner .....	255	213	10	197	393 05	2 50	390 55	39 05	1 98	77	92	1 28	
Miner .....	255	213	10	200	392 80	2 50	390 30	39 03	1 95	78	94	1 28	
Miner .....	255	213	10	199	391 25	2 50	388 75	38 87	1 95	78	93	1 28	
Miner .....	255	213	10	201	389 95	2 50	387 45	38 75	1 93	79	94	1 27	
Miner .....	255	213	10	178	389 30	2 50	386 80	38 68	2 17	69	91	1 27	
Miner .....	255	213	10	196	389 10	2 50	386 60	38 66	1 97	78	92	1 27	
Miner .....	255	213	10	180	386 05	2 50	383 55	38 35	2 13	71	85	1 26	
Miner .....	255	213	10	205	385 70	2 50	383 20	38 32	1 87	81	96	1 26	
Miner .....	255	213	10	206	382 64	2 57	380 07	38 00	1 84	81	97	1 25	
Miner .....	255	213	10	192	374 84	2 44	372 40	37 24	1 94	75	90	1 23	
Miner .....	255	213	10	189	373 35	2 50	370 85	37 08	1 96	74	89	1 22	
Miner .....	255	213	10	176	372 40	2 50	369 90	36 99	2 10	69	83	1 22	
Miner .....	255	213	10	190	368 50	2 25	366 25	36 62	1 93	75	89	1 20	
Miner .....	255	213	10	188	364 55	2 50	362 05	36 20	1 93	74	88	1 19	
Miner .....	255	213	10	168	364 40	2 50	361 90	36 19	2 15	67	79	1 19	
Miner .....	255	213	10	165	359 60	2 50	357 10	35 71	2 16	65	77	1 17	
Miner .....	255	213	10	200	359 50	2 50	357 00	35 70	1 79	78	94	1 17	
Miner .....	255	213	10	192	354 55	2 50	352 05	35 20	1 83	75	90	1 16	
Miner .....	255	213	10	182	352 85	2 50	350 35	35 03	1 93	71	85	1 15	
Miner .....	255	213	10	183	352 45	2 50	349 95	34 99	1 91	72	86	1 15	
Miner .....	255	213	10	196	346 80	2 50	344 30	34 43	1 76	77	92	1 13	
Miner .....	255	213	10	186	342 05	2 50	339 55	33 95	1 83	73	87	1 12	
Miner .....	255	213	10	154	340 65	2 25	338 40	33 84	2 20	62	72	1 11	
Miner .....	255	213	10	184	339 15	2 50	336 65	33 66	1 83	72	86	1 11	
Miner .....	255	213	10	189	335 10	2 50	332 60	33 26	1 77	74	89	1 09	
Miner .....	255	213	10	154	333 75	2 25	331 50	33 15	2 15	60	72	1 09	
Miner .....	255	213	10	197	333 85	2 50	331 35	33 13	1 68	77	92	1 09	
Miner .....	255	213	10	182	333 60	2 50	331 10	33 11	1 81	71	85	1 09	
Miner .....	255	213	10	179	328 30	2 25	326 05	32 60	1 82	70	84	1 07	
Miner .....	255	213	10	190	310 95	2 50	308 45	30 84	1 59	74	89	1 02	
Miner .....	255	213	10	157	275 30	2 25	273 05	27 30	1 73	62	74	90	
Miner .....	255	213	10	153	269 35	2 25	267 10	26 71	1 75	60	72	88	
Miner .....	232	195	9	178	529 85	3 25	526 60	58 51	2 96	77	91	1 91	
Miner .....	232	195	9	184	511 80	2 25	509 55	56 62	2 77	79	94	1 85	
Miner .....	232	195	9	184	499 40	2 25	497 15	55 24	2 70	79	94	1 80	
Miner .....	229	193	9	182	436 50	2 25	434 25	48 25	2 39	79	94	1 59	
Miner .....	232	195	9	184	434 30	2 25	432 05	48 00	2 35	79	94	1 57	
Miner .....	232	195	9	176	432 45	2 25	430 20	47 80	2 44	76	90	1 56	
Miner .....	229	193	9	178	415 60	2 25	413 35	45 93	2 32	78	92	1 51	
Miner .....	229	196	9	188	413 70	2 25	411 45	45 72	2 19	82	96	1 50	
Miner .....	228	190	9	179	409 50	2 25	407 25	45 25	2 28	79	94	1 49	
Miner .....	229	196	9	188	407 00	2 25	404 75	44 97	2 15	82	96	1 48	
Miner .....	219	196	9	188	407 00	2 25	404 75	44 17	2 15	82	96	1 48	
Miner .....	229	193	9	185	406 90	2 25	404 65	44 96	2 19	81	93	1 48	
Miner .....	232	195	9	176	406 60	2 25	404 35	44 93	2 29	76	90	1 47	
Miner .....	229	193	9	177	404 65	2 00	402 65	44 74	2 27	77	92	1 47	

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	229	193	9	175	\$404 05	22 25	\$401 80	\$44 64	\$2 30	76	91	\$1 47	
Miner .....	229	193	9	173	400 50	22 00	398 50	44 28	2 30	76	90	1 46	
Miner .....	229	193	0	184	396 80	22 25	394 55	43 84	2 14	80	95	1 45	
Miner .....	229	193	9	183	395 55	22 25	393 30	43 70	2 15	80	95	1 44	
Miner .....	232	195	9	176	393 80	22 25	391 55	43 51	2 22	76	90	1 42	
Miner .....	229	193	9	177	389 90	22 25	387 65	43 07	2 19	77	92	1 42	
Miner .....	232	195	9	169	387 70	22 25	385 45	42 33	2 24	73	87	1 40	
Miner .....	232	195	9	169	387 70	22 25	385 45	42 33	2 28	73	87	1 40	
Miner .....	229	193	9	187	382 83	22 24	380 59	42 29	2 04	82	97	1 40	
Miner .....	232	195	9	184	382 30	22 25	380 05	42 23	2 07	79	94	1 38	
Miner .....	228	190	9	178	379 10	22 25	376 85	41 87	2 12	78	94	1 38	
Miner .....	232	195	9	182	378 55	22 28	376 27	41 81	2 07	78	93	1 36	
Miner .....	228	190	9	156	374 00	22 25	371 75	41 31	2 32	68	82	1 36	
Miner .....	232	195	9	181	373 38	22 25	371 13	41 24	2 05	78	93	1 34	
Miner .....	228	190	9	175	372 90	22 21	370 65	41 18	2 12	77	92	1 36	
Miner .....	232	195	9	179	369 85	22 25	367 60	40 84	2 05	77	92	1 33	
Miner .....	232	195	9	172	368 15	22 25	365 90	40 66	2 13	74	88	1 33	
Miner .....	229	193	9	186	367 85	22 25	365 60	40 62	1 97	81	96	1 34	
Miner .....	232	195	9	191	366 50	22 25	364 25	40 47	1 91	82	98	1 32	
Miner .....	228	186	9	175	351 80	22 25	349 55	38 84	2 00	77	94	1 28	
Miner .....	229	193	9	171	351 25	22 25	349 00	38 78	2 04	75	89	1 28	
Miner .....	232	195	9	158	349 10	22 25	346 85	38 76	2 19	68	81	1 26	
Miner .....	232	195	9	184	346 80	22 25	344 55	38 28	1 87	79	94	1 25	
Miner .....	229	193	9	181	341 65	22 25	339 40	37 71	1 87	79	94	1 24	
Miner .....	232	195	9	181	341 15	22 25	338 90	37 66	1 86	78	93	1 23	
Miner .....	228	190	9	153	339 30	22 25	337 05	37 45	2 20	67	80	1 23	
Miner .....	229	193	9	178	332 65	22 25	330 40	36 71	1 85	78	92	1 21	
Miner .....	232	195	9	181	322 45	22 25	320 20	35 58	1 77	78	93	1 16	
Miner .....	230	190	9	153	321 40	22 00	319 40	35 49	2 09	67	81	1 17	
Miner .....	230	191	9	151	317 45	22 25	315 20	35 02	2 09	66	79	1 15	
Miner .....	232	195	9	177	315 85	22 25	313 60	34 84	1 77	76	91	1 13	
Miner .....	232	195	9	177	315 85	22 25	313 60	34 84	1 77	76	91	1 13	
Miner .....	230	189	9	167	313 00	22 00	311 00	34 56	1 86	73	88	1 14	
Miner .....	232	195	9	158	310 25	22 25	308 00	34 22	1 95	68	81	1 12	
Miner .....	230	192	9	136	309 90	22 25	307 65	34 18	2 23	59	71	1 12	
Miner .....	232	195	9	146	300 15	22 25	297 90	33 10	2 04	63	70	1 08	
Miner .....	230	191	9	130	296 20	22 00	294 20	32 69	2 26	57	68	1 07	
Miner .....	230	191	9	129	290 85	22 00	288 85	32 09	2 24	56	68	1 05	
Miner .....	232	195	9	162	268 25	22 25	266 00	29 66	1 64	70	83	96	
Miner .....	229	193	9	134	255 25	1 75	253 50	28 17	1 82	59	69	93	
Miner .....	229	193	9	140	230 75	2 00	228 75	25 42	1 63	61	73	84	
Miner .....	232	195	9	154	229 70	2 25	227 45	25 27	1 48	66	79	83	
Miner .....	232	195	9	140	206 10	2 25	203 85	22 65	1 46	60	72	74	
Miner .....	229	193	9	136	192 20	1 75	190 45	21 16	1 40	59	70	70	
Miner .....	229	193	9	131	184 80	2 00	182 80	20 31	1 40	57	68	67	
Miner .....	206	177	8	144	429 92	2 51	427 41	53 43	2 97	70	81	1 74	
Miner .....	203	176	8	170	392 40	2 00	390 40	48 80	2 30	84	97	1 61	
Miner .....	203	176	8	165	390 45	2 00	388 45	48 56	2 35	81	94	1 60	
Miner .....	203	176	8	161	378 90	2 00	376 90	47 11	2 34	79	97	1 55	
Miner .....	203	176	8	151	365 60	2 00	363 60	45 45	2 41	74	86	1 50	

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Am't.			
Miner .....	206	177	8	159	\$358 05	\$2 00	\$356 05	\$44 51	\$2 24	77	90	\$1 45												
Miner .....	203	176	8	164	356 70	2 00	354 70	44 34	2 16	81	93	1 46												
Miner .....	206	177	8	151	356 65	2 00	354 65	44 33	2 35	73	85	1 45												
Miner .....	203	176	8	148	347 00	2 00	345 00	43 13	2 33	78	84	1 42												
Miner .....	203	176	8	153	345 55	2 00	343 55	42 94	2 25	75	87	1 41												
Miner .....	206	177	8	157	342 85	2 00	340 85	42 61	2 17	76	89	1 39												
Miner .....	203	166	8	150	340 10	2 00	338 10	42 26	2 25	74	90	1 39												
Miner .....	206	177	8	165	337 70	2 00	335 70	41 96	2 03	80	93	1 37												
Miner .....	206	177	8	162	329 05	2 00	327 05	40 88	2 42	79	92	1 33												
Miner .....	206	177	8	161	326 10	2 00	324 10	40 51	2 01	78	91	1 32												
Miner .....	203	176	8	164	325 95	2 00	323 95	40 49	1 98	81	93	1 33												
Miner .....	206	177	8	157	320 95	2 00	318 95	39 87	2 03	76	89	1 30												
Miner .....	206	177	8	147	319 30	2 00	317 30	39 66	2 16	71	83	1 30												
Miner .....	203	176	8	171	314 35	2 00	312 35	39 07	1 83	84	97	1 29												
Miner .....	206	177	8	159	312 30	2 00	310 30	38 79	1 95	77	90	1 27												
Miner .....	206	177	8	153	311 50	1 75	309 75	38 72	2 02	74	86	1 26												
Miner .....	203	176	8	165	300 85	2 00	307 85	38 48	1 85	82	94	1 27												
Miner .....	203	176	8	165	308 65	2 00	306 65	38 33	1 86	81	94	1 26												
Miner .....	206	175	8	156	300 00	2 00	298 00	37 13	1 91	76	94	1 22												
Miner .....	203	176	8	160	296 25	1 75	294 50	36 81	1 84	79	91	1 21												
Miner .....	203	176	8	160	296 25	2 00	294 25	36 78	1 84	79	91	1 21												
Miner .....	206	177	8	153	292 80	2 00	290 80	36 35	1 90	74	86	1 19												
Miner .....	206	177	8	125	238 40	2 00	236 40	29 55	1 89	61	71	96												
Miner .....	178	153	7	151	353 85	1 75	352 10	50 30	2 53	85	99	1 66												
Miner .....	181	154	7	143	339 85	1 75	338 10	48 30	2 36	79	93	1 58												
Miner .....	178	153	7	146	331 75	1 75	330 00	47 14	2 26	82	95	1 56												
Miner .....	178	153	7	139	329 40	1 75	327 65	46 81	2 36	78	91	1 55												
Miner .....	181	156	7	134	321 40	1 75	319 65	45 66	2 39	71	86	1 49												
Miner .....	178	153	7	136	317 45	1 75	315 70	45 10	2 32	76	89	1 48												
Miner .....	181	156	7	140	313 80	1 75	312 05	44 58	2 23	77	90	1 46												
Miner .....	178	153	7	132	312 90	1 75	311 15	44 45	2 36	74	86	1 47												
Miner .....	178	153	7	151	310 60	1 75	308 85	44 12	2 05	85	99	1 46												
Miner .....	180	157	7	147	297 45	1 75	295 70	42 24	2 01	82	93	1 38												
Miner .....	178	153	7	151	293 45	1 75	291 70	41 67	1 93	85	99	1 38												
Miner .....	180	157	7	147	292 70	1 75	290 95	41 56	1 98	82	94	1 36												
Miner .....	180	157	7	143	289 05	1 75	287 30	41 04	2 41	80	91	1 34												
Miner .....	178	153	7	132	284 15	1 75	282 40	40 34	2 14	74	86	1 33												
Miner .....	178	153	7	136	284 10	1 75	282 35	40 34	2 08	76	89	1 33												
Miner .....	178	155	7	132	282 35	1 75	280 60	40 09	2 13	74	86	1 32												
Miner .....	178	153	7	129	279 55	1 59	278 05	39 72	2 16	72	84	1 31												
Miner .....	178	153	7	134	274 25	1 75	272 50	38 93	2 03	75	88	1 29												
Miner .....	178	153	7	141	270 80	1 75	269 05	38 44	1 91	79	92	1 27												
Miner .....	178	153	7	112	270 00	1 70	268 30	38 33	2 39	63	73	1 27												
Miner .....	178	153	7	141	260 15	1 75	258 40	36 91	1 83	79	92	1 27												
Miner .....	180	148	7	119	252 60	1 50	251 10	35 87	2 11	66	80	1 17												
Miner .....	178	153	7	128	249 75	1 75	248 00	35 43	1 94	72	84	1 17												
Miner .....	181	156	7	144	240 14	1 70	238 44	34 06	1 66	80	92	1 11												
Miner .....	178	153	7	112	206 15	1 50	204 65	29 24	1 83	63	73	97												
Miner .....	181	156	7	133	204 00	1 75	202 25	28 89	1 52	73	85	95												
Miner .....	178	153	7	120	198 30	1 50	196 80	28 11	1 64	67	78	93												

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.....		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Time	Time	Time	Time	Time	Time	Am't.	Am't.		
Miner.....	180	157	7	102	\$170 05	\$1 50	\$168 55	\$24 08	\$1 65	57	65	\$0 79												
Miner.....	155	136	6	124	339 55	1 50	338 05	56 34	2 73	91	1 33													
Miner.....	151	130	6	124	305 50	1 50	304 00	50 67	2 53	79	92	1 68												
Miner.....	151	130	6	129	294 55	1 50	293 05	48 83	2 27	99	1 62													
Miner.....	151	130	6	112	267 60	1 50	266 10	44 35	2 38	84	86	1 47												
Miner.....	154	140	6	113	263 75	1 50	262 25	43 71	2 32	73	81	1 43												
Miner.....	154	140	6	113	263 75	1 50	262 25	43 71	2 32	73	81	1 43												
Miner.....	151	130	6	120	217 25	1 50	216 75	40 96	2 05	79	92	1 36												
Miner.....	151	130	6	122	237 25	1 50	235 75	39 29	1 93	81	94	1 30												
Miner.....	151	130	6	121	234 15	1 50	232 65	38 78	1 92	80	93	1 29												
Miner.....	156	134	6	103	230 55	1 50	229 05	38 18	2 22	66	77	1 24												
Miner.....	151	130	6	114	228 65	1 50	227 15	37 86	1 99	75	88	1 25												
Miner.....	156	134	6	114	220 10	1 50	218 60	36 43	1 92	73	85	1 18												
Miner.....	151	130	6	103	211 85	1 50	210 35	35 06	2 04	68	80	1 16												
Miner.....	156	134	6	110	209 30	1 50	207 80	34 63	1 88	71	82	1 13												
Miner.....	156	134	6	125	185 19	85	184 34	30 72	1 47	80	93	1 00												
Miner.....	156	134	6	98	181 00	1 50	179 50	29 92	1 33	63	73	98												
Miner.....	151	130	6	106	178 15	1 50	176 65	29 44	1 67	70	82	98												
Miner.....	151	130	6	106	178 15	1 50	176 65	29 44	1 67	70	82	98												
Miner.....	151	130	6	106	178 15	1 50	176 65	29 44	1 67	70	82	98												
Miner.....	156	134	6	95	170 80	1 25	169 55	28 26	1 78	61	71	92												
Miner.....	156	134	6	97	167 20	1 25	165 95	27 66	1 71	62	72	90												
Miner.....	155	135	6	98	145 90	1 50	144 40	24 07	1 47	63	73	78												
Miner.....	151	130	6	99	140 00	1 50	138 50	23 08	1 40	66	76	77												
Miner.....	155	136	6	70	131 90	1 25	130 65	21 78	1 87	45	51	71												
Miner.....	129	107	5	87	272 05	1 25	270 80	54 16	3 11	67	81	1 77												
Miner.....	126	106	5	95	243 30	1 25	242 05	48 41	2 55	75	90	1 60												
Miner.....	126	106	5	91	232 80	1 25	231 55	46 31	2 54	72	86	1 53												
Miner.....	129	107	5	91	230 70	1 25	229 45	45 89	2 52	71	85	1 50												
Miner.....	129	117	5	100	229 85	1 25	228 60	45 72	2 29	77	85	1 49												
Miner.....	126	106	5	95	222 85	1 25	221 60	44 32	2 33	75	90	1 46												
Miner.....	129	107	5	86	213 75	1 25	212 50	42 50	2 47	67	80	1 32												
Miner.....	129	107	5	90	213 30	1 25	212 05	42 41	2 36	70	84	1 32												
Miner.....	129	107	5	91	213 05	1 25	211 80	42 36	2 33	71	85	1 38												
Miner.....	128	112	5	99	208 20	1 25	206 95	41 59	2 09	77	88	1 35												
Miner.....	129	107	5	92	207 35	1 25	206 10	41 22	3 24	71	86	1 35												
Miner.....	129	107	5	96	206 05	1 25	204 80	40 96	2 13	74	90	1 34												
Miner.....	126	106	5	95	205 55	1 25	204 30	40 86	2 15	75	90	1 35												
Miner.....	126	106	5	95	205 55	1 25	204 30	40 86	2 15	75	90	1 35												
Miner.....	126	106	5	97	203 25	1 25	202 00	40 40	2 08	77	92	1 34												
Miner.....	129	107	5	72	202 75	1 95	200 80	40 16	2 79	56	67	1 31												
Miner.....	126	106	5	96	199 55	1 25	198 30	39 66	2 07	76	91	1 31												
Miner.....	126	106	5	85	196 15	1 25	194 90	38 98	2 29	67	80	1 29												
Miner.....	129	107	5	92	195 55	1 25	194 30	38 86	2 11	71	86	1 27												
Miner.....	126	106	5	93	195 40	1 25	194 15	38 83	2 09	74	88	1 28												
Miner.....	129	104	5	85	191 86	1 18	190 68	38 14	2 24	66	82	1 24												
Miner.....	129	107	5	103	191 04	1 85	190 19	38 04	1 85	80	96	1 24												
Miner.....	126	106	5	94	188 85	1 25	187 60	37 52	2 00	75	89	1 24												
Miner.....	126	106	5	88	186 45	1 25	185 20	37 04	2 10	70	83	1 23												
Miner.....	129	107	5	96	182 25	1 25	181 00	36 20	1 89	74	90	1 18												



Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	126	106	5	93	\$181 50	\$1 25	\$180 25	\$96 05	\$1 94	73	88	\$1 19
Miner .....	126	106	5	88	179 95	1 25	178 70	35 74	2 03	71	83	1 18
Miner .....	126	106	5	96	177 55	1 25	176 30	35 26	1 84	76	91	1 16
Miner .....	126	106	5	95	175 70	1 25	174 45	34 89	1 84	75	90	1 15
Miner .....	126	106	5	84	173 75	1 25	172 50	34 50	2 05	67	79	1 14
Miner .....	130	114	5	85	169 75	1 25	168 50	33 70	1 98	65	75	1 10
Miner .....	126	106	5	82	167 40	1 25	166 15	33 23	2 03	65	77	1 10
Miner .....	130	114	5	92	163 95	1 25	162 70	32 54	1 77	71	81	1 06
Miner .....	126	106	5	81	162 80	1 00	161 80	32 36	2 00	64	76	1 07
Miner .....	128	112	5	97	163 00	1 25	161 75	32 35	1 67	76	87	1 06
Miner .....	126	106	5	93	160 00	1 25	158 75	31 75	1 71	74	88	1 05
Miner .....	126	106	5	93	160 00	1 25	158 75	31 75	1 71	74	88	1 05
Miner .....	126	106	5	72	158 40	1 25	157 15	31 43	2 18	57	68	1 04
Miner .....	126	106	5	82	157 70	1 25	156 45	31 29	2 91	65	77	1 04
Miner .....	129	107	5	70	149 25	1 25	148 00	29 60	2 11	53	65	97
Miner .....	128	112	5	91	148 70	1 25	147 45	29 49	1 62	71	81	96
Miner .....	129	111	5	77	143 65	1 25	142 40	28 48	1 85	60	69	93
Miner .....	129	107	5	86	142 40	1 25	141 15	28 23	1 64	67	80	92
Miner .....	129	107	5	99	140 59	1 00	139 99	28 00	1 41	77	93	91
Miner .....	129	111	5	75	135 90	1 00	134 90	26 98	1 80	53	68	88
Miner .....	126	106	5	73	112 00	1 25	110 75	22 15	1 52	58	69	73
Miner .....	126	106	5	73	111 90	1 25	110 65	22 13	1 52	58	69	73
Miner .....	129	107	5	53	103 35	1 00	102 45	20 49	1 93	41	50	68
Miner .....	126	106	5	76	95 84	1 02	94 82	18 96	1 25	60	72	63
Miner .....	104	83	4	74	228 05	1 00	227 05	56 76	3 04	71	89	1 85
Miner .....	99	79	4	79	225 08	1 36	223 72	55 93	2 83	80	100	1 86
Miner .....	102	94	4	84	178 50	1 00	177 50	44 38	2 11	82	89	1 45
Miner .....	99	79	4	79	168 85	1 00	167 85	41 96	2 12	80	100	1 40
Miner .....	103	88	4	72	166 50	1 00	165 50	41 38	2 30	70	82	1 35
Miner .....	104	83	4	73	162 90	1 00	161 90	40 48	2 22	70	86	1 32
Miner .....	102	84	4	57	162 35	1 00	161 35	40 34	2 83	56	68	1 32
Miner .....	103	88	4	80	159 75	1 00	158 75	39 56	1 98	78	91	1 29
Miner .....	104	83	4	54	158 70	1 00	157 70	39 43	2 92	52	65	1 28
Miner .....	103	88	4	88	157 65	1 00	156 65	39 16	1 78	85	100	1 27
Miner .....	103	88	4	82	153 00	1 00	152 00	38 00	1 85	80	93	1 24
Miner .....	104	83	4	68	152 80	1 00	151 80	37 95	2 23	65	82	1 23
Miner .....	99	79	4	74	143 10	1 00	142 10	35 53	1 92	75	94	1 18
Miner .....	99	79	4	73	139 05	1 00	138 05	34 51	1 89	74	92	1 15
Miner .....	104	97	4	73	138 85	1 00	137 85	34 46	1 89	70	75	1 12
Miner .....	104	83	4	65	134 00	95	133 05	33 26	2 05	62	78	1 08
Miner .....	103	88	4	80	129 55	1 00	128 55	32 14	1 61	78	91	1 05
Miner .....	103	88	4	80	129 55	1 00	128 55	32 14	1 61	78	91	1 05
Miner .....	104	83	4	64	123 40	1 00	122 40	30 60	1 91	62	77	1 00
Miner .....	99	79	4	66	108 90	1 00	107 90	26 98	1 63	67	84	90
Miner .....	104	83	4	49	95 10	1 00	94 10	23 53	1 92	47	59	77
Miner .....	99	79	4	48	75 40	1 00	74 40	18 60	1 55	49	61	62
Miner .....	74	57	3	56	149 20	70	148 50	49 50	2 65	76	98	1 65
Miner .....	77	60	3	53	146 80	75	146 05	48 68	2 76	69	88	1 59
Miner .....	77	60	3	54	144 90	75	144 15	44 72	2 48	70	90	1 46
Miner .....	77	60	3	50	133 50	75	132 75	44 25	2 65	65	83	1 44

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employed appears on the pay-roll.	Actual working time of employee.	Gross earnings of employee for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employee for the time he appears on the pay-roll.	Average monthly receipts for the months employee appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employee appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	74	57	3	55	\$132 35	\$0 75	\$131 60	\$43 87	\$2 39	74	96	\$1 46
Miner.....	77	73	3	58	132 25	75	131 50	43 83	\$2 27	79	79	1 44
Miner.....	79	74	3	59	131 15	75	130 40	43 47	\$2 21	75	80	1 42
Miner.....	76	61	3	61	131 05	75	130 30	43 43	\$2 14	80	100	1 42
Miner.....	77	60	3	47	127 85	50	127 35	42 45	\$2 71	61	78	1 38
Miner.....	77	60	3	53	127 05	75	126 30	42 10	\$2 38	60	88	1 37
Miner.....	77	60	3	45	125 05	75	124 30	41 43	\$2 76	58	75	1 35
Miner.....	79	74	3	64	120 35	75	119 60	39 87	1 87	81	86	1 30
Miner.....	78	63	3	43	114 70	75	113 95	37 98	\$2 56	68	68	1 24
Miner.....	74	57	3	54	107 35	75	106 60	35 53	1 97	73	95	1 18
Miner.....	76	61	3	57	106 30	75	105 55	35 18	1 85	75	93	1 15
Miner.....	74	57	3	53	103 80	75	102 05	34 35	1 94	72	93	1 15
Miner.....	77	70	3	57	103 65	75	103 90	34 30	1 81	74	81	1 12
Miner.....	77	60	3	55	101 60	75	100 85	33 62	1 83	71	92	1 10
Miner.....	77	70	3	56	101 05	75	100 30	33 43	1 79	73	80	1 09
Miner.....	74	57	3	54	100 15	75	99 40	33 13	1 84	73	95	1 10
Miner.....	74	57	3	47	100 10	75	99 35	33 12	2 11	64	82	1 10
Miner.....	74	57	3	52	100 05	75	99 30	33 10	1 91	40	91	1 10
Miner.....	74	57	3	46	91 65	75	90 90	30 30	1 98	62	81	1 01
Miner.....	77	70	3	55	91 40	75	90 65	30 22	1 65	71	79	99
Miner.....	74	57	3	43	89 65	75	88 90	29 63	2 07	58	75	99
Miner.....	77	60	3	52	89 20	75	88 45	29 48	1 70	68	87	98
Miner.....	75	65	3	38	88 35	75	87 60	29 20	2 31	51	58	98
Miner.....	77	60	3	49	88 30	75	87 55	29 18	1 79	64	82	95
Miner.....	74	57	3	47	87 75	75	87 00	29 00	1 85	64	82	97
Miner.....	74	57	3	47	87 75	75	87 00	29 00	1 85	64	82	97
Miner.....	74	57	3	44	86 35	75	85 60	28 53	1 95	59	77	95
Miner.....	76	61	3	61	86 30	75	85 55	28 52	1 40	80	100	98
Miner.....	77	70	3	46	82 50	75	81 75	27 25	1 78	60	66	89
Miner.....	77	60	3	35	81 50	75	80 75	26 92	2 31	45	58	88
Miner.....	74	57	3	36	77 05	50	76 55	25 52	2 13	49	63	85
Miner.....	77	60	3	42	75 90	75	75 15	25 05	1 79	55	70	82
Miner.....	79	74	3	59	70 00	75	69 25	23 08	1 17	75	80	75
Miner.....	77	60	3	30	69 60	75	68 85	22 95	1 77	51	65	75
Miner.....	76	61	3	50	67 75	75	67 00	22 33	1 84	66	82	73
Miner.....	76	61	3	50	67 75	75	67 00	22 33	1 84	66	82	73
Miner.....	78	69	3	35	61 40	75	60 65	20 22	1 73	45	51	66
Miner.....	77	60	3	34	59 95	50	59 45	19 82	1 75	44	57	65
Miner.....	77	60	3	34	59 90	75	59 15	19 72	1 74	44	57	64
Miner.....	77	60	3	45	58 70	75	57 95	19 32	1 29	58	75	63
Miner.....	77	60	3	45	58 70	75	57 95	19 32	1 29	58	75	63
Miner.....	77	70	3	40	56 45	50	55 95	18 65	1 40	52	59	61
Miner.....	52	47	2	36	108 70	50	108 20	54 10	3 01	69	77	1 77
Miner.....	52	49	2	40	100 55	50	100 05	50 03	2 50	77	82	1 64
Miner.....	49	36	2	35	96 15	50	95 65	47 83	2 66	73	100	1 62
Miner.....	52	37	2	36	93 55	50	93 05	46 53	2 58	69	97	1 53
Miner.....	52	37	2	36	88 90	50	88 30	44 15	2 45	69	97	1 45
Miner.....	52	37	2	37	87 10	50	86 60	43 30	2 34	71	100	1 42
Miner.....	52	47	2	46	81 80	50	81 30	40 65	1 77	88	98	1 38

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days			Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	52	47	2	2	46	\$81 80	\$0 50	\$81 30	\$40 65	\$1 77	88	98	\$1 33
Miner.....	52	47	2	2	46	81 80	50	81 30	40 65	1 77	88	98	1 33
Miner.....	52	46	2	2	41	79 40	50	78 90	39 45	1 92	79	89	1 27
Miner.....	52	37	2	2	37	78 00	50	77 50	38 75	2 09	71	100	1 27
Miner.....	49	36	2	2	36	77 90	50	77 40	38 70	2 14	73	100	1 31
Miner.....	49	36	2	2	36	76 50	50	76 00	38 00	2 11	73	100	1 29
Miner.....	52	37	2	2	37	76 10	50	75 60	37 80	2 04	71	100	1 24
Miner.....	52	51	2	2	33	73 25	50	72 75	36 38	2 20	63	65	1 19
Miner.....	52	47	2	2	42	72 40	50	71 90	35 95	1 71	81	89	1 18
Miner.....	52	47	2	2	42	72 40	50	71 90	35 95	1 71	81	89	1 18
Miner.....	52	47	2	2	42	72 40	50	71 90	35 95	1 71	81	89	1 18
Miner.....	52	37	2	2	31	71 64	51	71 13	35 57	2 45	56	80	1 17
Miner.....	52	37	2	2	31	69 75	50	69 25	34 63	2 23	60	84	1 14
Miner.....	52	37	2	2	31	69 30	50	68 80	34 40	2 21	60	84	1 11
Miner.....	49	36	2	2	29	67 65	50	67 15	33 58	2 31	59	81	1 14
Miner.....	52	47	2	2	39	67 35	50	66 85	33 43	1 71	75	83	1 10
Miner.....	52	37	2	2	29	67 35	50	66 85	33 43	2 31	56	78	1 10
Miner.....	52	46	2	2	34	66 72	34	66 38	33 19	1 95	65	74	1 07
Miner.....	52	57	2	2	29	66 20	50	65 70	32 85	2 27	56	78	1 08
Miner.....	50	43	2	2	29	63 60	50	63 10	31 55	2 18	58	67	1 03
Miner.....	52	37	2	2	30	62 45	50	61 95	30 98	2 07	58	81	1 02
Miner.....	52	37	2	2	32	62 35	50	61 85	30 93	1 93	62	86	1 01
Miner.....	52	31	2	2	25	59 30	50	58 80	29 40	2 35	48	81	96
Miner.....	49	36	2	2	29	57 60	50	57 10	28 55	1 97	59	81	97
Miner.....	52	37	2	2	34	57 45	50	56 95	28 48	1 68	65	92	93
Miner.....	52	51	2	2	37	56 90	50	56 40	28 20	1 52	71	73	92
Miner.....	52	37	2	2	37	55 80	50	55 30	27 65	1 49	71	100	91
Miner.....	52	37	2	2	28	55 15	50	54 65	27 32	1 95	54	76	90
Miner.....	52	37	2	2	30	54 90	50	54 40	27 20	1 81	58	81	89
Miner.....	52	47	2	2	29	53 50	50	53 00	26 50	1 62	56	62	87
Miner.....	52	49	2	2	34	52 85	50	52 35	26 18	1 54	65	69	86
Miner.....	52	49	2	2	34	52 85	50	52 35	26 18	1 54	65	69	86
Miner.....	51	40	2	2	26	50 55	50	50 05	25 03	1 93	51	65	82
Miner.....	52	37	2	2	28	50 50	50	50 00	25 00	1 79	54	76	82
Miner.....	51	39	2	2	24	46 65	25	46 40	23 20	1 85	47	62	75
Miner.....	50	43	2	2	26	45 70	25	45 45	22 73	1 75	52	60	75
Miner.....	52	37	2	2	18	42 80	50	42 30	21 15	2 35	35	49	69
Miner.....	51	40	2	2	28	40 80	50	40 30	20 15	1 44	55	70	65
Miner.....	51	39	2	2	31	40 00	50	39 50	19 75	1 27	61	79	64
Miner.....	49	36	2	2	19	39 45	50	38 95	19 48	2 05	39	53	66
Miner.....	51	40	2	2	26	36 75	50	36 25	18 13	1 39	51	65	59
Miner.....	27	23	1	1	23	49 85	25	49 60	49 60	2 16	85	100	1 60
Miner.....	23	18	1	1	18	46 10	25	45 85	45 85	2 55	78	100	1 64
Miner.....	27	27	1	1	26	44 60	25	44 35	44 35	1 71	96	96	1 43
Miner.....	27	27	1	1	26	44 60	25	44 35	44 35	1 71	96	96	1 43
Miner.....	26	20	1	1	17	44 20	25	43 95	43 95	2 59	69	85	1 42
Miner.....	23	18	1	1	18	43 15	25	42 90	42 90	2 38	78	100	1 53
Miner.....	26	20	1	1	19	43 00	25	42 75	42 75	2 35	73	95	1 38
Miner.....	25	21	1	1	21	42 30	25	42 05	42 05	2 00	84	100	1 36
Miner.....	26	20	1	1	19	35 20	25	34 95	34 95	1 84	73	95	1 12



Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work. ....	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					Mos.	Days	High est.					
Prospector.....	229	204	9	166½	.....	\$2 00	\$1 50		\$261 05	\$29 01	\$1 57	73	\$0 96	
Fireman.....	50	43	2	37	.....	1 50	1 45		54 05	27 02	1 46	74	61	
Switchman.....	51	40	2	27¾	.....	1 60	.....		44 40	22 20	1 60	54	73	
Mule-tender....	306	264	12	364	\$50 00	.....	.....		598 40	49 87	1 65	119	1 64	
Cager.....	306	264	12	247¼	.....	2 25	1 50		529 20	44 10	2 14	81	1 45	
Cager.....	306	264	12	244	.....	2 00	1 75		476 25	39 69	1 95	80	1 30	
Timberman.....	306	264	12	251	.....	2 00	.....		502 00	41 83	2 00	82	1 38	
Timberman.....	254	227	10	306	.....	2 00	.....		612 00	61 20	2 00	120	2 01	
Timberman.....	232	195	9	230	.....	2 00	.....		460 00	51 11	2 00	99	1 67	
Timberman.....	229	194	9	188	.....	2 00	.....		376 00	41 78	2 00	82	1 38	
Timberman.....	156	134	6	127	.....	2 00	.....		254 00	42 33	2 00	81	1 38	
Timberman.....	129	87	5	137¾	.....	2 00	1 50		272 60	54 52	1 96	107	1 78	
Timberman.....	129	87	5	134	.....	2 00	.....		268 00	53 60	2 00	104	1 75	
Timberman.....	129	87	5	130	.....	2 00	.....		260 00	52 00	2 00	101	1 70	
Timberman.....	126	106	5	103	.....	2 00	.....		206 00	41 20	2 00	82	1 36	
Timberman.....	128	116	5	91	.....	2 00	.....		182 00	36 40	2 00	71	1 19	
Timberman.....	103	88	4	98	.....	2 00	.....		196 00	49 00	2 00	95	1 59	
Timberman.....	104	83	4	97	.....	2 00	.....		194 00	48 50	2 00	93	1 58	
Timberman.....	76	61	3	58	.....	2 00	.....		116 00	38 67	2 00	76	1 26	
Timberman.....	79	74	3	48½	.....	2 00	.....		97 00	32 33	2 00	61	1 05	
Timberman.....	52	49	2	31	.....	2 00	.....		62 00	31 00	2 00	60	1 02	
Timberman.....	50	43	2	31	.....	2 00	.....		62 00	31 00	2 00	62	1 02	
Timberman.....	52	37	2	28	.....	2 00	.....		56 00	28 00	2 00	54	92	
Timberman.....	25	23	1	24	.....	2 00	.....		48 00	48 00	2 00	96	1 55	
Timberman.....	27	27	1	12	.....	2 00	.....		24 00	24 00	2 00	44	77	
Timberman.....	27	27	1	11	.....	2 00	.....		22 00	22 00	2 00	41	71	
Timberman.....	27	27	1	9	.....	2 00	.....		18 00	18 00	2 00	33	58	
Timberman.....	27	23	1	9	.....	2 00	.....		18 00	18 00	2 00	33	58	
Timberman.....	26	17	1	6	.....	2 00	.....		12 00	12 00	2 00	23	40	
Laborer.....	306	264	12	293½	.....	1 85	1 30		449 95	37 50	1 53	96	1 23	
Laborer.....	306	264	12	226	.....	1 50	1 25		326 20	27 18	1 44	74	89	
Laborer.....	306	264	12	196½	.....	1 50	1 25		279 50	23 29	1 42	64	77	
Laborer.....	280	247	11	306¾	.....	1 50	1 25		440 35	40 03	1 44	110	1 31	
Laborer.....	280	238	11	232¼	.....	1 75	1 50		372 40	33 85	1 60	83	1 11	
Laborer.....	280	244	11	220¼	.....	1 50	1 25		347 20	31 56	1 57	79	1 04	
Laborer.....	232	155	9	173½	.....	1 65	.....		285 00	31 67	1 64	75	1 03	
Laborer.....	206	175	8	186	.....	1 85	1 50		317 60	39 70	1 70	90	1 30	
Laborer.....	155	136	6	166	.....	1 50	1 00		348 50	41 42	1 50	107	1 36	
Laborer.....	150	130	6	112¾	.....	1 60	1 50		173 15	28 86	1 52	75	96	
Laborer.....	155	135	6	98½	.....	1 60	.....		157 60	26 17	1 60	64	86	
Laborer.....	129	107	5	123	.....	2 00	1 60		221 65	44 33	1 80	96	1 45	
Laborer.....	129	107	5	140	.....	1 50	.....		310 00	42 00	1 50	109	1 37	
Laborer.....	125	108	5	54	.....	1 50	1 25		79 45	15 89	1 47	43	53	
Laborer.....	104	83	4	89	.....	1 50	1 25		122 85	31 71	1 38	86	1 00	
Laborer.....	102	90	4	59¼	.....	1 75	1 50		96 65	24 16	1 63	58	79	

Table XXI.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est. Low-est.					
Laborer .....	76	61	3	61½	.....	\$1 60	.....	\$98 00	\$32 67	\$1 60	81	\$1 07	
Laborer .....	76	61	3	33¾	.....	1 50	.....	49 85	16 62	1 50	44	54	
Laborer .....	26	20	1	29	.....	1 50	.....	42 05	42 05	1 50	112	1 36	
Laborer .....	25	21	1	16	.....	1 45	.....	22 20	23 20	1 45	64	75	
Laborer .....	25	22	1	14¾	.....	1 50	.....	22 10	22 10	1 50	59	74	
Laborer .....	26	20	1	14	.....	1 50	.....	21 00	21 00	1 50	56	68	
Laborer .....	25	24	1	11¾	.....	1 25	.....	14 05	14 05	1 25	45	47	
Driver .....	306	264	12	236	.....	1 70	\$1 35	355 05	29 59	1 50	77	97	
Driver .....	306	264	12	213½	.....	1 75	1 50	348 90	29 08	1 63	70	96	
Driver .....	306	264	12	211½	.....	1 75	1 50	344 45	28 70	1 62	69	95	
Driver .....	306	264	12	221¼	.....	1 70	1 35	344 25	28 69	1 55	72	94	
Driver .....	306	264	12	196	.....	1 70	1 65	315 45	26 29	1 61	64	86	
Driver .....	306	264	12	200¾	.....	1 65	1 35	303 65	25 30	1 51	66	83	
Driver .....	306	264	12	197	.....	1 25	1 00	218 70	18 23	1 11	64	60	
Driver .....	306	264	12	159	.....	1 40	1 25	214 35	17 86	1 34	52	59	
Driver .....	306	264	12	164½	.....	1 25	1 00	182 05	15 17	1 11	54	50	
Driver .....	280	238	11	187½	.....	1 75	1 65	316 35	28 76	1 68	67	94	
Driver .....	255	213	10	157½	.....	1 60	1 50	249 90	21 99	1 58	62	82	
Driver .....	229	202	9	128¾	.....	1 65	1 50	207 55	23 06	1 61	56	83	
Driver .....	203	178	8	177	.....	1 40	.....	247 60	30 94	1 40	87	1 01	
Driver .....	203	178	8	131¼	.....	1 70	1 40	214 80	28 83	1 64	65	88	
Driver .....	203	176	8	120	.....	1 40	1 35	168 15	21 02	1 40	59	69	
Driver .....	176	155	7	103¾	.....	1 60	1 65	170 55	24 36	1 64	59	80	
Driver .....	129	107	5	134	.....	1 85	.....	247 90	49 58	1 85	104	1 62	
Driver .....	128	103	5	70½	.....	1 65	1 50	108 80	21 76	1 54	55	71	
Driver .....	103	88	4	102	.....	1 70	.....	173 40	43 35	1 70	99	1 41	
Driver .....	104	83	4	87	.....	1 50	.....	130 50	32 63	1 50	84	1 06	
Driver .....	77	70	3	57¾	.....	1 75	.....	101 05	33 68	1 75	75	1 10	
Driver .....	77	60	3	42¾	.....	1 50	.....	64 10	21 37	1 50	56	70	
Driver .....	79	74	3	43	.....	1 40	.....	60 20	20 07	1 40	54	65	
Driver .....	53	53	2	37	.....	1 65	1 60	60 05	30 02	1 62	70	98	
Driver .....	25	24	1	26	.....	1 85	.....	48 10	48 10	1 85	104	1 60	
Driver .....	26	20	1	27	.....	1 50	.....	40 50	40 50	1 50	104	1 31	
Driver .....	23	18	1	13¼	.....	1 60	.....	21 20	21 20	1 60	57	76	
Driver .....	23	18	1	12¾	.....	1 70	.....	20 80	20 80	1 70	53	74	
Driver .....	27	23	1	20¼	.....	1 00	.....	20 25	20 25	1 00	75	65	
Oiler .....	254	216	10	154½	.....	1 50	80	168 75	16 88	1 09	61	56	
Oiler .....	125	108	5	56¾	.....	1 00	.....	56 50	11 30	1 00	45	37	
Oiler .....	104	97	4	66¾	.....	1 10	1 00	70 20	17 55	1 06	64	57	
Trapper .....	280	244	11	175½	.....	75	70	123 55	11 23	71	62	37	
Trapper .....	255	213	10	171½	.....	80	70	120 55	12 06	70	67	40	
Trapper .....	229	193	9	149½	.....	1 20	70	156 50	17 40	1 05	65	57	
Trapper .....	255	192	9	146¾	.....	70	.....	103 40	11 50	70	58	34	
Trapper .....	204	173	8	130¾	.....	1 40	70	163 25	20 41	1 25	64	67	
Trapper .....	178	130	7	111½	.....	70	.....	78 00	11 14	70	63	37	
Trapper .....	151	112	5	85¾	.....	70	.....	59 95	11 99	70	57	33	
Trapper .....	78	63	3	48¾	.....	80	.....	39 00	13 00	80	63	42	
Trapper .....	52	47	2	40¼	.....	70	.....	28 15	14 07	70	77	46	
Trapper .....	27	23	1	8¾	.....	70	.....	6 10	6 10	70	32	19	

## RECAPITULATION—Establishment VIII.

## MINERS, PAID BY THE TON.

No. OF MEN.	No. of months on the pay- roll.	Gross earnings.	Deduc- tions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
131	10 Months....	\$55,768 62	\$328 97	\$55,439 65	\$423 20	\$42 32	77.6	\$2 11	\$1 39
59	9 " " " " " "	21,120 76	132 57	20,988 19	355 73	39 53	73.9	2 10	1 30
28	8 " " " " " "	9,343 77	56 71	9,287 06	331 68	41 46	77.2	2 12	1 57
28	7 " " " " " "	7,829 99	47 93	7,782 06	277 93	39 70	77.9	2 01	1 31
24	6 " " " " " "	5,210 24	34 60	5,175 64	215 65	35 94	72.7	1 98	1 19
49	5 " " " " " "	8,872 48	59 75	8,812 73	179 85	35 97	70.7	2 05	1 19
22	4 " " " " " "	3,291 03	22 31	3,268 72	148 58	37 14	71.7	2 09	1 24
47	3 " " " " " "	4,551 85	32 20	4,519 65	96 16	32 05	66.3	1 96	1 08
48	2 " " " " " "	3,182 46	23 35	3,159 11	65 81	32 90	64.9	1 98	1 08
21	1 " " " " " "	696 45	5 00	691 45	32 92	32 92	65.7	1 93	1 09
457	.....	\$119,867 65	\$743 39	\$119,124 26	.....	\$39 76	74.9	\$2 10	\$1 31

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.  Days.	Net earnings.	AVERAGES.			
				Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Pit-boss, day .....	1	12 mos.	\$1,017 00	\$84 75	100	\$3 35	\$2 79
Pit-boss, night .....	1	12 mos.	901 95	75 16	98	3 02	2 47
Engineers .....	2	623	1,126 45	51 20	100	1 81	1 54
Fireman .....	1	37	54 05	27 02	74	1 46	1 61
Weighmen .....	2	527	1,095 80	55 66	100	2 07	1 83
Blacksmith .....	1	237 1/4	646 90	53 91	94	2 25	1 77
Mule tender .....	1	364	261 05	29 01	100	1 65	1 65
Prospector .....	1	166 1/2	44 40	22 20	73	1 57	96
Switchman .....	5	27 1/2	891 55	26 65	84	1 24	87
Sectionmen .....	5	717 1/2	1,235 05	49 46	87	2 25	1 63
Tracklayers .....	3	552 1/2	1,065 45	41 89	80	2 05	1 40
Cagers .....	2	491 1/2	4,317 60	38 11	74	2 00	1 24
Timbermen .....	23	2,160 1/4	4,398 30	30 94	77	1 53	98
Laborers .....	23	2,857	5,238 60	27 73	70	1 52	91
Drivers .....	10	3,477 1/2	878 45	12 89	60	1 80	41
Trappers, boys .....	10	1,068 1/2	295 45	15 24	88	1 06	50
Oilers, boys .....	3	277 1/4	.....	.....	.....	.....	.....
	109	14,237 1/4	\$24,066 45	.....	.....	.....	.....

TABLE XXII.—Establishment VIII.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Un- der \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'ns	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11 "	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10 "	.....	.....	2	11	28	54	25	10	.....	.....	.....	.....	.....	131
9 "	.....	3	4	8	11	24	6	.....	3	1	.....	.....	.....	59
8 "	.....	.....	1	.....	11	11	4	1	.....	.....	.....	.....	.....	28
7 "	.....	1	3	1	7	10	5	1	.....	.....	.....	.....	.....	28
6 "	.....	3	6	2	6	4	1	1	1	.....	.....	.....	.....	24
5 "	1	3	6	11	12	11	4	1	.....	.....	.....	.....	.....	49
4 "	1	1	1	6	6	5	.....	.....	2	.....	.....	.....	.....	22
3 "	5	5	13	9	4	9	2	.....	.....	.....	.....	.....	.....	47
2 "	3	4	12	10	10	5	2	2	.....	.....	.....	.....	.....	48
1 "	4	2	4	3	.....	6	2	.....	.....	.....	.....	.....	.....	21
Totals.	*14	22	52	61	95	139	51	16	6	1	.....	.....	.....	†457

\* Average earnings \$19.10 for an average 12.5 days' work.

† Average earnings of all men \$39.76 per month.

Number who earned more than the average, 221, or 48 per cent. of the whole.

Number who earned less than the average, 236, or 52 per cent. of the whole.



**TABLE XXIII.--Summaries of Results Shown by Monthly Pay-Rolls.****ESTABLISHMENT IX.—Coal Mine in Sangamon County.**

CONDITIONS:—Depth of shaft, 240 feet; thickness of coal,  $5\frac{1}{2}$  feet; working places, dry; system of working, pillar-and-room; coal blasted from the solid wall without mining; irregularities of the seam known as "horse-backs" frequent; prices paid to miners  $57\frac{1}{2}$  cents a ton from May to Octobqr,  $62\frac{1}{2}$  cents from October to April and 55 cents for April; check-weighman at the scale; screen bars  $\frac{1}{4}$  of an inch apart.

**COAL MINERS, PAID BY THE TON.**

MONTHS.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	Whole number of men on the pay-roll during the month.	Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.	Average net earnings per man per month.	Average net earnings per man per day.	Average number of tons mined per man per day.	Average number of days' work performed per man.	Number of men required to produce same tonnage if at work full running time.
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.
1888.											
1889.											
May .....	26	19	97	1,606	4,720	\$2,973 40	\$30 66	\$1 85	2.93	16.6	85
June .....	26	16	94	1,350	3,694	2,362 70	25 14	1 75	2.74	14.4	84
July .....	25	20	94	1,733	4,352	2,825 40	30 00	1 65	2.51	18.4	87
August .....	27	26	101	2,288	7,245	4,734 35	46 57	2 08	3.17	22.7	88
September .....	25	24	100	1,912	6,310	3,890 25	38 90	2 03	3.30	19.1	80
October .....	27	27	102	2,397	6,732	4,665 85	45 74	1 95	2.81	23.5	89
November .....	25	25	116	2,386	8,157	5,583 30	48 13	2 34	3.42	20.6	95
December .....	26	25	119	2,446	7,736	5,574 75	46 85	2 38	3.16	20.5	98
January .....	26	18	107	1,775	5,508	3,877 35	36 24	2 18	3.10	16.6	96
February .....	23	18	107	1,731	5,113	3,593 40	33 58	2 08	2.95	16.2	96
March .....	25	13	97	1,154	3,625	2,760 25	28 46	2 39	3.14	11.9	89
April .....	26	10	85	798	2,597	1,759 95	20 71	2 21	3.25	9.4	80
The year .....	306	241	210	21,576	65,789	\$44,600 95	\$36 59	\$2 07	3.05	17.7	90
Monthly Avs...	25.5	20.1	102	1,798	5,482	3,716 75	36 59	2 07	53.97	17.7	90

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	19	32	758%	.....	\$1,379 80	\$43 12	\$1 82	.....	23.7	.....
June .....	26	16	31	695	.....	1,233 30	41 40	1 85	.....	22.4	.....
July .....	25	20	30	679%	.....	1,274 30	42 48	1 87	.....	22.7	.....
August .....	27	26	32	828%	.....	1,505 65	47 05	1 82	.....	25.9	.....
September .....	25	24	33	822%	.....	1,498 55	45 41	1 82	.....	24.9	.....
October .....	27	27	32	832%	.....	1,495 35	46 73	1 80	.....	26.	.....
November .....	25	25	32	801%	.....	1,443 75	45 12	1 80	.....	25.1	.....
December .....	25	25	31	771%	.....	1,394 65	44 99	1 81	.....	24.9	.....
January .....	26	18	32	723	.....	1,323 40	41 36	1 83	.....	22.6	.....
February .....	23	18	35	726	.....	1,360 60	38 87	1 87	.....	20.7	.....
March .....	25	13	33	653%	.....	1,227 00	37 18	1 88	.....	19.8	.....
April .....	26	10	33	571%	.....	1,094 60	33 17	1 91	.....	17.3	.....
The year .....	306	241	49	8,863%	.....	\$16,280 95	\$42 18	\$1 84	53.97	22.96	.....
Monthly Avs...	25.5	20.1	32	739	.....	1,356 75	42 18	1 84	.....	22.96	.....
Grand totals...	306	241	259	30,440	65,789	\$60,881 90	.....	.....	53.97	.....	.....
General Avs...	25.5	20.1	134	2,537	5,482	5,073 49	\$37.93	\$2 00	.....	19.	.....

TABLE XXIV.—Individual Earnings and Working Time.

## ESTABLISHMENT IX.—Coal Mine in Sangamon County.

*Conditions of employment given at the head of preceding table.*

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	306	241	12	226	\$768 85	\$180 35	\$588 50	\$49 04	\$2 60	74	94	\$1 61
Miner.....	306	241	12	231	711 00	126 25	584 75	48 73	2 53	75	96	1 60
Miner.....	306	241	12	214	750 35	166 25	584 10	48 68	2 74	70	88	1 60
Miner.....	306	241	12	233	678 95	113 80	565 15	47 10	2 43	76	96	1 55
Miner.....	306	241	12	225	724 35	161 25	563 10	46 93	2 50	74	93	1 54
Miner.....	306	241	12	222	729 65	171 30	558 35	46 53	2 52	73	92	1 53
Miner.....	306	241	12	235	683 40	125 80	557 60	46 47	2 37	77	98	1 53
Miner.....	306	241	12	222	692 35	150 35	542 00	45 17	2 44	73	92	1 48
Miner.....	306	241	12	211	676 85	140 25	536 60	44 72	2 54	69	88	1 47
Miner.....	306	241	12	235	700 60	169 95	530 65	44 22	2 26	77	98	1 45
Miner.....	306	241	12	216	645 95	120 85	525 10	43 76	2 43	71	90	1 44
Miner.....	306	211	12	224	598 90	91 45	507 45	42 29	2 26	73	93	1 39
Miner.....	306	241	12	234	626 45	121 85	504 60	42 05	2 16	76	97	1 38
Miner.....	306	241	12	235	628 95	125 50	503 45	41 95	2 14	77	98	1 38
Miner.....	306	241	12	224	627 35	127 20	500 15	41 68	2 23	73	93	1 37
Miner.....	306	241	12	199	631 90	156 65	475 25	39 60	2 39	65	83	1 30
Miner.....	306	241	12	234	610 95	137 00	473 95	39 49	2 03	76	97	1 30
Miner.....	306	241	12	235	593 65	123 00	470 65	39 22	2 00	77	98	1 29
Miner.....	306	241	12	235	593 90	123 25	470 65	39 22	2 00	77	98	1 29
Miner.....	306	241	12	205	575 45	128 45	447 00	37 25	2 18	67	85	1 22
Miner.....	306	241	12	220	594 15	154 80	439 35	36 61	2 00	72	91	1 20
Miner.....	306	241	12	232	531 30	98 25	433 05	36 09	1 87	76	96	1 19
Miner.....	306	241	12	227	534 30	114 65	419 65	34 97	1 85	74	94	1 15
Miner.....	306	241	12	207	620 70	203 50	417 20	34 77	2 02	67	86	1 14
Miner.....	306	241	12	226	500 05	94 40	405 65	33 80	1 79	74	94	1 11
Miner.....	306	211	12	231	528 15	124 85	403 30	33 61	1 75	75	96	1 10
Miner.....	306	241	12	233	490 40	92 50	397 90	33 16	1 71	76	97	1 09
Miner.....	306	211	12	221	484 00	92 40	391 60	32 63	1 77	72	92	1 07
Miner.....	306	241	12	229	501 10	109 70	391 40	32 62	1 71	75	95	1 07
Miner.....	306	241	12	209	483 85	100 15	383 70	31 98	1 83	68	87	1 05
Miner.....	306	241	12	222	489 75	110 30	379 45	31 62	1 71	73	92	1 04
Miner.....	306	211	12	198	462 70	93 85	368 85	30 74	1 86	65	82	1 01
Miner.....	306	211	12	220	462 65	94 15	368 50	30 71	1 67	72	91	1 01
Miner.....	306	241	12	207	439 15	70 85	368 30	30 69	1 78	68	86	1 01
Miner.....	306	241	12	217	511 45	143 20	368 25	30 69	1 70	71	90	1 01
Miner.....	306	211	12	231	475 10	113 35	361 75	30 15	1 57	75	96	99
Miner.....	306	211	12	237	463 75	109 75	354 00	29 50	1 49	77	98	97
Miner.....	306	241	12	214	419 70	85 30	334 40	27 87	1 56	70	89	92
Miner.....	306	241	12	198	437 40	111 85	325 55	27 13	1 64	65	82	89
Miner.....	306	241	12	196	413 35	121 25	310 10	25 84	1 58	64	81	85
Miner.....	306	241	12	214	379 40	75 25	304 15	25 35	1 42	70	89	83
Miner.....	280	222	11	187	765 70	12 90	752 80	68 44	4 03	67	84	2 25
Miner.....	280	231	11	217	849 15	164 25	685 90	61 45	3 11	78	94	2 02
Miner.....	280	225	11	213	717 15	86 45	630 70	57 34	2 96	76	95	1 88
Miner.....	280	222	11	205	567 90	98 85	469 05	42 64	2 29	73	92	1 40

Table XXIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days											
Miner .....	280	231	11	206	\$441 30	\$97 05	\$347 25	\$31 57	\$1 09	74	89	\$1 04	
Miner .....	280	222	11	212	437 00	101 30	335 70	30 52	1 58	76	95	1 01	
Miner .....	280	222	11	217	431 05	116 75	314 30	28 57	1 45	77	98	1 04	
Miner .....	255	218	10	173	502 20	96 05	406 15	40 62	2 35	68	79	1 33	
Miner .....	255	218	10	194	474 20	93 70	380 50	38 05	1 96	76	89	1 25	
Miner .....	254	206	10	179	475 35	103 85	371 50	37 15	2 08	70	87	1 22	
Miner .....	255	218	10	147	300 40	61 35	239 05	23 90	1 63	58	67	1 06	
Miner .....	232	200	9	200	625 10	111 45	513 65	57 07	2 57	86	100	1 79	
Miner .....	229	186	9	174	643 80	141 50	502 30	55 81	2 91	76	94	1 84	
Miner .....	228	196	9	193	589 65	125 50	464 15	51 57	2 40	85	98	1 69	
Miner .....	229	186	9	162	537 30	100 70	436 60	46 51	2 69	71	87	1 60	
Miner .....	232	200	9	139	255 30	58 30	197 00	21 89	1 42	60	70	1 72	
Miner .....	206	182	8	170	620 05	129 45	490 60	61 23	2 89	83	98	2 00	
Miner .....	202	160	8	152	601 35	114 35	487 00	60 87	3 20	75	95	2 01	
Miner .....	206	182	8	173	578 55	120 45	458 10	57 26	2 65	81	95	1 87	
Miner .....	206	182	8	172	442 30	104 55	337 75	42 22	1 96	83	94	1 38	
Miner .....	202	160	8	139	443 25	105 90	337 35	42 17	2 43	69	87	1 39	
Miner .....	202	160	8	153	405 25	83 50	321 75	40 22	2 10	76	96	1 33	
Miner .....	202	160	8	147	356 05	73 40	282 65	35 33	1 92	73	92	1 17	
Miner .....	202	160	8	153	355 45	86 70	268 75	33 59	1 76	76	96	1 11	
Miner .....	202	160	8	151	295 05	33 10	261 95	32 74	1 73	75	94	1 08	
Miner .....	206	182	8	137	319 40	73 75	245 65	30 71	1 36	67	75	1 00	
Miner .....	203	183	8	160	330 65	85 90	244 75	30 59	1 53	79	87	1 01	
Miner .....	202	160	8	98	278 15	51 90	226 25	28 28	2 31	49	61	94	
Miner .....	207	175	8	136	264 55	53 35	211 20	26 40	1 62	63	74	86	
Miner .....	204	140	8	114	248 40	49 25	199 15	24 89	1 75	57	81	82	
Miner .....	177	136	7	123	622 45	137 25	485 20	69 31	3 94	69	90	2 29	
Miner .....	177	136	7	127	362 50	36 50	326 00	46 59	2 57	72	93	1 54	
Miner .....	177	136	7	106	404 95	109 95	295 00	42 14	2 78	60	78	1 39	
Miner .....	181	157	7	138	331 20	61 40	269 80	38 54	1 96	76	88	1 26	
Miner .....	181	157	7	148	336 75	68 75	268 00	38 29	1 81	82	94	1 25	
Miner .....	176	150	7	137	329 95	72 45	257 50	36 50	1 88	78	91	1 21	
Miner .....	177	136	7	123	278 00	57 55	220 45	31 49	1 79	69	90	1 04	
Miner .....	176	134	7	118	281 55	68 89	212 75	30 39	1 80	67	88	1 00	
Miner .....	177	156	7	99	144 85	45 45	99 40	14 20	1 00	56	63	47	
Miner .....	156	132	6	114	409 35	61 60	347 75	57 96	3 05	73	85	1 89	
Miner .....	154	147	6	130	354 55	61 60	292 95	48 83	2 25	84	88	1 59	
Miner .....	150	109	6	105	277 40	46 85	230 55	38 43	2 20	70	96	1 27	
Miner .....	150	109	6	104	277 60	51 50	226 10	37 68	2 17	69	75	1 25	
Miner .....	150	109	6	100	267 90	57 40	210 50	35 08	2 11	67	92	1 16	
Miner .....	150	109	6	81	214 05	45 60	168 45	28 08	2 08	54	74	93	
Miner .....	151	126	6	95	212 70	48 15	164 55	27 43	1 73	63	75	90	
Miner .....	151	126	6	96	211 75	48 70	163 05	27 18	1 70	64	76	90	
Miner .....	151	137	6	103	205 55	49 05	156 50	26 08	1 52	68	75	86	
Miner .....	155	138	6	135	200 15	63 00	137 15	22 56	1 02	87	98	75	
Miner .....	129	105	5	105	421 40	61 10	360 30	72 06	3 43	81	100	2 35	
Miner .....	129	105	5	104	412 40	68 65	343 75	68 75	3 31	81	99	2 25	
Miner .....	125	84	5	82	251 10	38 35	212 75	42 55	2 58	66	88	1 41	
Miner .....	125	84	5	80	252 50	46 90	205 60	41 12	2 57	64	95	1 36	
Miner .....	129	105	5	68	229 35	33 10	196 25	39 25	2 89	53	65	1 28	

Table XXIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll. <sup>1</sup>	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smiting.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	129	105	5	104	\$212 15	\$39 95	\$172 20	\$34 44	\$1 66	81	99	\$1 13
Miner .....	124	99	5	74	210 80	45 25	165 55	33 11	2 24	60	75	1 10
Miner .....	125	84	5	63	200 90	39 80	161 10	32 22	2 26	50	75	1 07
Miner .....	130	121	7	79	191 85	38 45	153 40	30 63	1 94	61	65	1 00
Miner .....	125	84	5	68	187 10	42 70	144 40	24 88	2 12	54	81	96
Miner .....	125	84	5	79	176 15	38 10	138 05	27 70	1 88	63	94	92
Miner .....	124	99	5	89	184 20	49 85	134 35	26 87	1 51	72	90	89
Miner .....	129	114	5	93	188 45	54 15	134 30	26 86	1 44	72	92	87
Miner .....	124	99	5	73	167 90	39 80	128 10	25 62	1 75	59	74	85
Miner .....	125	84	5	65	156 45	34 65	121 80	24 36	1 87	52	77	81
Miner .....	130	99	5	84	148 40	31 90	116 50	23 30	1 39	65	85	76
Miner .....	125	84	5	63	145 20	31 10	114 10	22 82	1 81	50	75	76
Miner .....	129	111	5	80	139 45	35 90	103 55	20 71	1 29	62	72	69
Miner .....	129	105	5	86	125 75	28 40	97 35	19 47	1 13	67	82	64
Miner .....	104	102	4	79	338 10	73 65	264 45	66 11	3 35	76	77	2 17
Miner .....	100	59	4	56	271 20	60 05	211 15	52 79	3 77	56	95	1 76
Miner .....	102	101	4	85	260 90	52 45	208 45	52 11	2 45	83	84	1 71
Miner .....	104	91	4	75	235 25	48 80	186 45	46 61	2 49	72	82	1 43
Miner .....	104	91	4	77	211 65	34 80	176 85	44 21	2 30	74	85	1 44
Miner .....	104	91	4	81	171 45	26 75	144 70	36 17	1 79	78	90	1 18
Miner .....	104	91	4	79	176 75	38 15	138 60	34 65	1 75	76	87	1 16
Miner .....	104	91	4	80	171 35	41 15	130 20	32 55	1 63	77	88	1 06
Miner .....	100	59	4	56	142 50	24 50	118 00	29 50	2 11	56	95	99
Miner .....	103	96	4	62	136 50	24 35	112 15	28 04	1 81	60	65	92
Miner .....	99	86	4	65	137 80	31 95	105 85	26 46	1 63	66	76	88
Miner .....	99	86	4	65	137 80	31 95	105 85	26 46	1 63	66	76	88
Miner .....	104	91	4	68	127 95	23 40	104 55	26 14	1 54	65	75	87
Miner .....	103	96	4	73	145 35	45 05	100 30	25 08	1 37	71	76	82
Miner .....	103	95	4	70	125 20	30 25	94 95	23 74	1 36	68	74	77
Miner .....	103	95	4	70	126 25	32 95	93 30	23 33	1 33	68	74	76
Miner .....	104	91	4	65	120 35	28 80	91 55	22 89	1 41	63	71	74
Miner .....	100	59	4	55	113 45	28 90	84 55	21 14	1 54	55	93	70
Miner .....	100	59	4	47	102 70	22 25	80 45	20 14	1 71	47	79	67
Miner .....	104	91	4	56	100 40	24 60	75 80	18 95	1 35	54	62	62
Miner .....	104	91	4	63	96 95	24 95	72 00	18 00	1 14	61	70	59
Miner .....	77	76	3	70	348 10	75 65	272 45	90 82	3 89	91	92	2 99
Miner .....	77	77	3	71	245 70	40 45	205 25	68 41	2 89	92	92	2 23
Miner .....	77	55	3	49	190 35	36 00	154 35	51 45	3 15	64	89	1 68
Miner .....	74	61	3	46	153 05	26 20	126 85	42 28	2 76	62	75	1 41
Miner .....	74	61	3	46	152 95	26 10	126 85	42 28	2 76	62	75	1 41
Miner .....	74	41	3	39	150 80	40 35	110 45	36 82	2 83	53	95	1 24
Miner .....	77	55	3	50	120 95	24 00	96 95	32 32	1 94	65	91	1 05
Miner .....	77	77	3	56	151 70	35 00	96 70	32 23	1 73	73	73	1 05
Miner .....	74	41	3	41	118 15	23 10	95 05	31 68	2 32	55	100	1 07
Miner .....	77	76	3	55	113 95	24 10	89 85	29 95	1 63	71	72	77
Miner .....	77	70	3	53	113 40	23 85	89 55	29 85	1 69	69	76	97
Miner .....	77	55	3	50	101 25	18 10	83 15	27 72	1 66	65	91	90
Miner .....	77	55	3	41	88 90	9 70	79 20	26 40	1 93	53	75	86
Miner .....	78	62	3	46	91 35	17 15	74 20	24 73	1 61	60	74	81
Miner .....	77	55	3	40	88 35	14 55	73 80	24 60	1 85	52	73	80

Table XXIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	74	41	3	41	\$93 20	\$20 75	\$72 45	\$24 15	\$1 77	55	100	\$0 81
Miner .....	74	41	3	41	90 70	20 05	70 65	23 55	1 72	55	100	79
Miner .....	74	49	3	48	80 05	15 05	65 00	21 67	1 35	62	87	71
Miner .....	74	49	3	36	85 15	22 75	62 40	20 80	1 73	49	73	69
Miner .....	74	49	3	30	61 80	16 80	45 00	15 00	1 50	41	61	50
Miner .....	52	50	2	34	169 00	51 85	117 15	58 58	3 45	65	68	1 92
Miner .....	52	50	2	33	106 15	16 30	89 85	44 93	2 72	63	66	1 47
Miner .....	52	52	2	33	84 75	12 80	71 95	35 98	2 18	63	63	1 18
Miner .....	52	52	2	33	84 75	12 80	71 95	35 98	2 18	63	63	1 18
Miner .....	52	35	2	29	77 25	15 35	61 90	30 95	2 13	56	83	1 01
Miner .....	52	35	2	29	77 25	15 35	61 90	30 95	2 13	56	83	1 01
Miner .....	52	35	2	33	75 05	14 30	60 75	30 38	1 84	63	94	99
Miner .....	52	51	2	40	82 30	23 60	58 70	29 35	1 47	77	78	95
Miner .....	50	50	2	25	65 10	10 50	54 60	27 30	2 18	50	50	90
Miner .....	50	50	2	47	79 95	26 30	53 65	26 83	1 14	94	94	88
Miner .....	52	51	2	39	66 95	13 80	53 15	26 58	1 36	75	76	87
Miner .....	50	50	2	25	64 60	12 65	51 95	25 98	2 08	50	50	85
Miner .....	52	50	2	27	67 60	16 30	51 30	25 65	1 90	52	54	84
Miner .....	48	31	2	26	68 10	18 30	49 80	24 90	1 92	54	84	84
Miner .....	50	50	2	39	60 05	11 95	48 10	24 05	1 23	78	78	79
Miner .....	50	50	2	39	59 65	12 25	47 40	23 70	1 22	78	78	78
Miner .....	52	52	2	24	63 60	16 75	46 85	23 43	1 95	46	46	77
Miner .....	52	35	2	26	58 90	13 15	45 75	22 88	1 76	50	74	75
Miner .....	51	23	2	23	56 55	11 05	45 50	22 75	1 98	45	100	75
Miner .....	48	31	2	25	59 95	14 75	45 20	22 60	1 81	52	80	77
Miner .....	50	50	2	15	61 20	16 15	45 05	22 52	3 00	30	30	74
Miner .....	52	50	2	21	55 90	12 85	43 05	21 62	2 05	40	42	71
Miner .....	51	23	2	21	50 75	8 05	42 70	21 35	2 03	41	91	70
Miner .....	52	35	2	25	48 90	6 95	41 95	20 98	1 68	48	71	69
Miner .....	53	36	2	36	49 95	8 75	41 20	20 60	1 14	68	100	68
Miner .....	52	52	2	30	47 75	8 05	39 70	19 85	1 32	58	58	64
Miner .....	49	36	2	24	44 30	10 35	33 95	16 98	1 41	49	66	58
Miner .....	50	50	2	21	45 85	12 05	33 20	16 60	1 58	42	42	54
Miner .....	51	23	2	15	35 25	7 15	28 10	14 05	1 87	29	66	46
Miner .....	52	41	2	27	30 35	8 45	21 90	10 95	1 81	52	66	36
Miner .....	52	41	2	27	30 35	8 45	21 90	10 95	1 81	52	66	36
Miner .....	25	25	1	23	87 40	16 05	71 35	71 35	3 10	92	92	2 30
Miner .....	25	25	1	18	51 60	10 35	41 25	41 25	2 29	72	72	1 33
Miner .....	26	19	1	19	51 00	10 10	40 90	40 90	2 15	73	100	1 32
Miner .....	27	26	1	26	40 50	8 30	32 20	32 20	1 24	96	99	1 04
Miner .....	27	26	1	21	41 70	9 85	31 85	31 85	1 52	78	81	1 03
Miner .....	26	19	1	19	40 15	8 35	31 80	31 80	1 67	73	100	1 03
Miner .....	26	19	1	17	41 60	9 80	31 80	31 80	1 87	65	89	1 02
Miner .....	23	18	1	17	37 40	10 16	27 30	27 30	1 61	74	94	98
Miner .....	26	19	1	15	31 20	4 20	27 00	27 00	1 80	53	79	87
Miner .....	25	25	1	17	32 30	7 05	25 25	25 25	1 49	68	68	81
Miner .....	25	25	1	17	32 30	7 05	25 25	25 25	1 49	68	68	81
Miner .....	26	18	1	17	32 30	7 15	25 15	25 15	1 48	65	94	81
Miner .....	25	20	1	20	31 50	7 15	24 35	24 35	1 22	80	100	79
Miner .....	26	10	1	10	32 50	9 60	22 90	22 90	2 29	38	100	76

Table XXIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	25	20	1	19	\$29 75	\$7 15	\$22 60	\$22 60	\$1 19	76	95	\$0 73
Miner .....	26	19	1	11	29 05	7 10	21 95	21 95	1 99	42	58	70
Miner .....	27	26	1	23	38 95	17 50	21 45	21 45	.93	85	88	69
Miner .....	27	26	1	23	38 95	17 50	21 45	21 45	.93	85	88	69
Miner .....	26	19	1	11	39 65	9 60	20 05	20 05	1 82	42	58	65
Miner .....	23	18	1	15	24 15	4 60	19 55	19 55	1 30	65	83	70
Miner .....	25	25	1	15	21 05	6 45	14 60	14 60	.97	60	60	49
Miner .....	25	15	1	15	21 05	6 45	14 60	14 60	.97	60	60	49
Miner .....	26	29	1	7	20 30	6 35	13 95	13 95	1 99	27	37	45
Miner .....	27	26	1	7	14 65	3 50	11 15	11 15	1 79	26	27	36
Miner .....	25	25	1	14	17 95	9 00	8 95	8 75	64	56	56	29
Miner .....	26	19	1	8	11 20	3 40	7 80	7 80	.98	31	42	25
Miner .....	25	23	1	15	15 35	7 70	7 65	7 65	51	60	50	26
Miner .....	25	24	1	7	9 75	3 05	6 70	6 70	.96	28	29	22
Miner .....	26	16	1	10	14 05	6 35	4 70	4 70	.47	38	63	16

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Amt	Time	Am't.
Pit-boss .....	306	241	12	306	\$83 35	.....	.....	\$1,000 20	\$83 35	\$3 27	100	\$2 74
Engineer.....	306	241	12	306	75 00	.....	.....	900 00	75 00	2 94	100	2 47
Blacksmith .....	306	241	12	298	.....	\$2 50	.....	744 95	62 08	2 50	97	2 04
Bl'ksmith h'pr.	306	241	12	296½	.....	2 00	.....	593 00	49 42	2 00	97	1 62
Weighman .....	306	241	12	306	56 00	.....	.....	666 00	55 50	2 11	100	1 82
Carpenter .....	254	206	10	250	.....	2 00	.....	500 00	50 00	2 00	98	1 64
Carpenter .....	52	35	2	35½	.....	2 00	.....	71 00	35 50	2 00	68	1 16
Slack-hauler ...	306	241	12	332	.....	1 50	.....	497 85	41 49	1 50	108	1 36
Slack-hauler ...	77	77	3	62¼	.....	1 75	.....	108 90	36 30	1 75	81	1 18
W'tchman, n'g't.	306	241	12	365	40 00	.....	.....	480 00	40 00	1 32	119	1 32

Table XXIV.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.											
Fireman .....	306	241	12	291½				\$1 50		\$436 85	\$36 40	\$1 50	95	\$1 20									
Fireman .....	51	35	2	22½				1 50		33 75	16 88	1 50	45	56									
Tracklayer .....	306	241	12	318				2 50		794 95	66 25	2 50	104	2 18									
Tracklayer .....	306	241	12	319½				2 25		718 20	59 85	2 25	104	1 97									
Driver .....	306	241	12	297½				2 00		594 50	49 55	2 00	97	1 63									
Driver .....	306	241	12	285½				2 00		571 50	47 63	2 00	93	1 57									
Driver .....	306	241	12	481½				2 00		563 00	46 92	2 00	92	1 52									
Driver .....	306	241	12	278½				2 00		557 00	46 42	2 00	91	1 52									
Driver .....	306	241	12	270½				2 00		541 00	45 09	2 00	88	1 48									
Driver .....	306	241	12	228¾				2 00		457 50	38 13	2 00	75	1 25									
Driver .....	306	241	12	259				1 50	\$1 00	355 75	29 65	1 37	85	97									
Driver .....	280	231	11	256				2 00		512 00	46 55	2 00	91	1 53									
Driver .....	202	160	8	186¾				1 50		280 10	35 01	1 50	93	1 15									
Driver .....	181	157	7	174½				2 00		348 50	49 79	2 00	96	1 63									
Driver .....	156	132	6	151½				2 00		308 00	50 50	2 00	97	1 65									
Driver .....	129	105	5	114				2 00		228 50	45 70	2 00	88	1 43									
Driver .....	125	84	5	102½				2 00		205 00	41 00	2 00	82	1 36									
Driver .....	100	59	4	83½				2 00		167 00	41 75	2 00	84	1 39									
Driver .....	74	41	3	53				2 00		106 00	35 33	2 00	72	1 19									
Driver .....	74	41	3	49				2 00		98 00	32 67	2 00	66	1 10									
Driver .....	52	50	2	40½				1 75		70 35	35 18	1 75	79	1 15									
Driver .....	51	36	2	31½				1 50		47 25	23 63	1 50	63	77									
Driver .....	26	19	1	6½				1 50		9 75	9 75	1 50	25	31									
Cager .....	306	241	12	262½				1 75		458 75	37 39	1 75	86	1 26									
Cager .....	306	241	12	259¾				1 75		198 20	16 10	1 75	85	53									
Cager .....	100	59	4	78				1 50		117 00	29 25	1 50	78	98									
Trimmer .....	255	218	10	219½				1 50		329 25	32 93	1 50	86	1 08									
Trimmer .....	203	176	8	157½				1 50		235 80	29 48	1 50	77	97									
Trimmer .....	100	68	4	62¾				1 50		94 10	43 52	1 50	63	78									
Trimmer .....	26	16	1	15½				1 50		23 25	23 25	1 50	62	78									
Trimmer .....	26	10	1	13½				1 50		20 25	20 25	1 50	62	68									
Trimmer .....	26	19	1	13				1 50		19 50	19 50	1 50	50	63									
Trimmer .....	25	20	1	8½				1 50		12 75	12 75	1 50	34	41									
Dumper .....	229	186	9	197				1 50		295 45	32 83	1 50	86	1 08									
Dumper .....	52	35	2	48				1 50		72 00	36 00	1 50	92	1 18									
Yardman .....	280	223	11	184½				1 50		276 30	25 12	1 50	66	83									
Laborer .....	204	173	8	178				1 50		266 90	33 35	1 50	87	1 10									
Trapper .....	306	241	12	255¾				60		153 45	12 79	60	84	42									
Trapper .....	306	241	12	253				60		151 65	12 64	60	83	42									

## RECAPITULATION—Establishment IX.

## MINERS, PAID BY THE TON.

No. of MEN.	No. of months on the pay-roll.	Gross earnings.	Deductions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
41....	12 Months....	\$23,487 50	\$5,075 05	\$18,412 45	\$449 08	\$37 42	72.3	\$2 03	\$1 23
7....	11 " " " " " "	4,203 20	677 50	3,525 70	503 67	45 79	74.3	2 42	1 50
4....	10 " " " " " "	1,752 15	354 95	1,397 20	349 30	31 39	68.2	2 02	1 15
5....	9 " " " " " "	2,651 15	537 45	2,113 70	422 74	46 97	75.7	2 44	1 55
14....	8 " " " " " "	5,538 45	1,165 55	4,372 90	312 35	39 04	72.4	2 13	1 29
9....	7 " " " " " "	3,092 20	658 10	2,434 10	270 45	38 63	70.2	2 17	1 27
10....	6 " " " " " "	2,629 00	539 45	2,095 55	209 55	34 92	70.8	1 97	1 16
19....	5 " " " " " "	4,001 50	798 10	3,203 40	168 60	33 72	64.9	2 07	1 11
21....	4 " " " " " "	3,449 85	749 70	2,700 15	128 58	32 14	67.5	1 90	1 07
20....	3 " " " " " "	2,619 90	529 70	2,090 20	104 51	34 84	64.1	2 20	1 17
31....	2 " " " " " "	2,028 05	447 95	1,580 10	50 97	25 48	56.3	1 77	83
29....	1 " " " " " "	919 30	215 80	675 50	23 29	23 29	60.5	1 46	78
210....	.....	\$56,372 25	\$11,771 30	\$44,600 95	.....	\$36 59	69.9	\$2 07	\$1 21

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.	Net earnings.	AVERAGES.			
		Days.		Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Pit-boss .....	1	12 mos.	\$1,000 00	\$83 33	100	\$3 27	\$2 74
Engineer .....	1	12 mos.	900 00	75 00	100	2 94	2 47
Firemen .....	2	313%	470 60	26 64	70	1 50	88
Weighman .....	1	12 mos.	666 00	55 50	100	2 11	1 82
Blacksmith .....	1	12 mos.	744 95	62 08	97	2 50	2 04
Blacksmith helper.....	1	12 mos.	593 00	49 42	97	2 00	1 62
Carpenters .....	2	285½	571 00	42 75	83	2 00	1 40
Slack haulers.....	2	394½	606 75	38 89	94	1 62	1 27
Night watchman.....	1	12 mos.	480 00	40 00	100	1 32	1 32
Tracklayers .....	2	637½	1,513 15	63 05	100	2 37	1 97
Drivers .....	19	3,149½	6,015 70	41 14	81	1 90	1 28
Cagers .....	3	599½	768 95	27 58	84	1 33	92
Trimmers .....	7	490	734 90	25 95	62	1 50	76
Dumpers .....	2	245	367 45	34 41	39	1 50	1 13
Trappers, boys.....	2	508½	305 10	12 22	53	60	42
Yardman .....	1	184½	276 30	25 12	66	1 50	83
Laborer .....	1	178	266 90	33 35	87	1 50	1 10
	49	8,863½	\$16,280 95				



TABLE XXV.—Establishment IX.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Under \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'nts.	.....	.....	5	14	7	7	8	.....	.....	.....	.....	.....	.....	41
11 "	.....	1	1	2	.....	1	.....	.....	1	1	1	.....	.....	7
10 "	.....	1	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....	4
9 "	.....	1	.....	.....	.....	.....	1	1	2	.....	.....	.....	.....	5
8 "	.....	1	2	4	1	3	.....	.....	1	2	.....	.....	.....	14
7 "	1	.....	.....	2	3	1	1	.....	.....	.....	1	.....	.....	9
6 "	.....	1	4	.....	3	.....	1	.....	1	.....	.....	.....	.....	10
5 "	1	4	5	4	1	2	.....	.....	.....	.....	1	1	.....	19
4 "	2	5	6	2	1	1	1	2	.....	.....	1	.....	.....	21
3 "	1	6	4	3	1	2	.....	1	.....	.....	1	.....	1	20
2 "	6	12	6	3	2	1	.....	.....	1	.....	.....	.....	.....	31
1 "	10	7	5	4	.....	2	.....	.....	.....	.....	.....	1	.....	29
Totals.	*21	38	38	38	21	21	12	4	6	3	5	2	1	†210

\*Average earnings \$13.56 for an average of 12.5 days' work.

†Average earnings of all men \$36.59 per month.

Number who earned more than the average, 73, or 35 per cent. of the whole.

Number who earned less than the average, 137, or 65 per cent. of the whole.

**TABLE XXVI.—Summaries of Results Shown by Monthly Pay-rolls.****ESTABLISHMENT X.—Coal Mine in Macoupin County.**

CONDITIONS:—Depth of shaft, 420 feet; thickness of coal, 8 feet; working places, dry; system of working, pillar-and-room; mining done by hand; price of mining, 50 cents a ton for screened coal; screen bars  $\frac{1}{4}$  of an inch apart; check-weighman at the scale; seam level and uniform.

**COAL MINERS, PAID BY THE TON.**

MONTHS.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	Whole number of men on the pay-roll during the month.	Whole number of days' work performed during the month.	Whole number of tons of coal mined and delivered.	Net earnings of all the men employed during the month.	Average net earnings per man per month.	Average net earnings per man per day.	Average number of tons mined per man per day.	Average number of days' work performed per man.	Number of men required to produce same tonnage if at work full running time.
	Days	Days		Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.
1888.												
1889.												
August .....	27	15		118	1,567	3,217	\$1,511 51	\$12 00	\$0 97	2.05	13.3	104
September.....	27	21		133	2,642	9,507	4,509 06	33 90	1 71	3.60	19.9	126
October.....	27	27		141	3,647	13,122	6,324 64	44 14	1 71	3.60	25.9	135
November.....	25	24		147	3,391	11,041	5,237 23	35 63	1 55	3.26	23.1	141
December.....	25	11		147	1,597	5,698	2,673 22	18 11	1 67	3.56	10.9	145
January.....	26	13		140	1,799	7,582	3,505 45	25 04	1 95	4.10	12.8	138
February.....	23	12		154	1,491	6,657	3,181 69	23 37	2 10	4.46	11.1	124
March.....	25	16		138	1,786	5,670	2,723 05	19 73	1 52	3.19	13.	112
April.....	26	16		124	1,939	7,654	3,602 96	29 06	1 86	3.95	15.6	121
May.....	26	26		123	3,106	15,718	7,438 92	60 48	2 40	5.06	25.3	119
June.....	26	24		130	3,046	14,300	6,727 60	51 75	2 21	4.69	23.4	127
July.....	25	23		134	2,991	11,940	5,654 00	42 20	1 89	4.	22.3	130
The year.....	306	228		205	29,004	111,906	\$52,939 27	\$32 90	\$1 83	3.86	18.	127
Monthly Avs..	25.5	19		134	2,417	9,326	4,411 61	32 90	1 83	69.55	18.	127

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

August .....	27	15	81	1,261½	.....	\$2,180 61	\$29 14	\$1 73	.....	15.6	.....
September.....	25	21	53	993½	.....	1,713 63	32 33	1 72	.....	18.8	.....
October.....	27	27	54	1,078	.....	1,828 92	33 85	1 70	.....	20.	.....
November.....	25	24	53	888½	.....	1,526 10	28 79	1 72	.....	16.8	.....
December.....	25	11	49	586¾	.....	990 75	20 22	1 69	.....	12.	.....
January.....	26	13	46	592¾	.....	1,041 61	22 64	1 78	.....	12.9	.....
February.....	23	12	42	598½	.....	1,083 12	25 79	1 81	.....	14.2	.....
March.....	25	16	59	911½	.....	1,647 95	27 93	1 81	.....	15.4	.....
April.....	26	16	40	680½	.....	1,219 58	30 49	1 79	.....	17.	.....
May.....	26	26	40	942	.....	1,636 16	40 60	1 74	.....	23.6	.....
June.....	26	24	39	889	.....	1,566 28	40 16	1 76	.....	22.8	.....
July.....	25	23	38	805½	.....	1,446 74	40 70	1 80	.....	21.2	.....
The year .....	306	228	144	10,226½	.....	\$17,881 44	\$30 10	\$1 75	.....	17.2	.....
Monthly Avs..	25.5	19	50	852	.....	1,490 04	30 10	1 75	.....	17.2	.....
Totals .....	306	228	*349	39,228¾	111,906	\$70,820 71	.....	.....	69.55	.....	.....
General Av..	25.5	19	184	3,269	9,326	5,901 73	\$32 15	\$1 81	69.55	17.8	.....

\*In addition to these, 29 sons of miners worked 4,566 days during the year, mining 11,025 tons and earning \$5,214, (one-third the earnings of the fathers with whom they worked); and 90 transient laborers worked 771 days and earned \$1,245.

TABLE XXVII.—Individual Earnings and Working Time.

## ESTABLISHMENT X.—Coal Mine in Macoupin County.

Conditions of employment given at the head of preceding table.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	306	228	12	224	\$838 02	\$37 84	\$800 18	\$66 68	\$3 57	73	98	\$2 19
Miner.....	306	228	12	225	778 24	36 48	741 76	61 81	3 30	74	99	2 03
Miner.....	306	228	12	224	641 04	35 64	605 40	50 45	2 70	73	98	1 66
Miner.....	306	228	12	217	566 68	27 68	539 00	45 00	2 48	71	95	1 48
Miner.....	306	228	12	218	551 87	22 03	529 84	44 15	2 43	71	96	1 45
Miner.....	306	228	12	225	526 16	28 49	497 67	41 47	2 21	74	99	1 36
Miner.....	306	228	12	223	523 86	27 32	496 54	41 38	2 23	73	98	1 36
Miner.....	306	228	12	224	510 11	20 18	489 93	40 33	2 19	73	98	1 34
Miner.....	306	228	12	220	511 41	27 86	483 55	40 30	2 20	72	96	1 32
Miner.....	306	228	12	215	505 78	27 23	478 55	39 90	2 23	70	94	1 31
Miner.....	306	228	12	215	505 78	27 23	478 55	39 86	2 22	70	94	1 31
Miner.....	306	228	12	218	503 32	27 80	475 52	39 63	2 18	71	96	1 30
Miner.....	306	228	12	223	494 76	23 50	471 26	39 27	2 11	73	98	1 30
Miner.....	306	228	12	215	489 16	19 78	469 38	39 11	2 18	70	94	1 29
Miner.....	306	228	12	223	495 56	27 14	468 42	39 04	2 10	73	98	1 28
Miner.....	306	228	12	215	482 08	22 78	459 30	38 28	2 14	70	94	1 26
Miner.....	306	228	12	225	484 01	25 81	458 20	38 18	2 04	74	99	1 26
Miner.....	306	228	12	225	484 01	25 81	458 20	38 18	2 04	74	99	1 26
Miner.....	306	228	12	213	486 17	28 60	457 57	38 13	2 15	70	93	1 25
Miner.....	306	228	12	215	477 83	26 15	451 68	37 64	2 10	70	94	1 24
Miner.....	306	228	12	224	476 78	28 47	448 31	37 36	2 00	73	98	1 23
Miner.....	306	228	12	224	476 78	28 47	448 31	37 36	2 00	73	98	1 23
Miner.....	306	228	12	216	473 92	25 98	447 94	37 34	2 07	70	95	1 23
Miner.....	306	228	12	222	473 06	28 10	445 56	37 13	2 01	73	97	1 22
Miner.....	306	228	12	211	469 46	29 90	439 56	36 63	2 08	69	93	1 20
Miner.....	306	228	12	225	460 16	23 39	436 77	36 40	1 94	74	99	1 20
Miner.....	306	228	12	216	466 86	30 16	436 70	36 39	2 02	70	95	1 20
Miner.....	306	228	12	225	459 57	23 41	436 16	36 35	1 94	74	99	1 19
Miner.....	306	228	12	211	450 34	23 74	426 60	35 55	2 02	69	93	1 17
Miner.....	306	228	12	214	443 02	23 52	419 50	34 96	1 96	70	94	1 15
Miner.....	306	228	12	212	443 88	29 94	413 94	34 49	1 95	69	93	1 13
Miner.....	306	228	12	221	425 68	16 86	408 82	34 15	1 85	72	97	1 12
Miner.....	306	228	12	217	434 11	24 95	409 16	34 10	1 89	71	95	1 12
Miner.....	306	228	12	217	434 11	24 95	409 16	34 10	1 89	71	95	1 12
Miner.....	306	228	12	218	429 10	22 17	406 93	33 91	1 87	71	96	1 11
Miner.....	306	228	12	218	429 10	22 17	406 93	33 91	1 87	71	96	1 11
Miner.....	306	228	12	223	426 38	21 15	405 23	33 77	1 82	73	98	1 11
Miner.....	306	228	12	226	425 34	23 48	401 86	33 49	1 78	74	99	1 10
Miner.....	306	228	12	226	425 34	23 48	401 86	33 49	1 78	74	99	1 10
Miner.....	306	228	12	197	422 67	22 50	400 17	33 35	2 03	64	86	1 10
Miner.....	306	228	12	223	419 73	22 76	396 97	33 08	1 78	73	97	1 09
Miner.....	306	228	12	211	423 16	26 80	396 36	33 03	1 88	69	93	1 09
Miner.....	306	228	12	227	424 52	28 92	395 60	32 97	1 74	74	100	1 08
Miner.....	306	228	12	226	418 36	23 51	394 85	32 90	1 70	74	99	1 08
Miner.....	306	228	12	226	418 36	23 51	394 85	32 90	1 70	74	99	1 08

Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Gross earnings of employé for the time he appears on the pay-roll.		Deductions for powder, oil and smithing.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Percentage of running time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Day	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.	Time	Time	Time	Am't.					
Miner .....	306	228	12	206	\$416 40	\$22 80	\$393 60	\$32 80	\$1 91	67	90	\$1 08												
Miner .....	306	228	12	226	415 07	21 64	393 43	32 79	1 74	74	99	1 08												
Miner .....	306	228	12	222	411 28	20 60	390 68	32 56	1 76	73	97	1 07												
Miner .....	306	228	12	215	416 52	26 06	390 46	32 54	1 82	70	94	1 07												
Miner .....	306	228	12	228	406 97	22 38	384 59	32 05	1 69	75	100	1 05												
Miner .....	306	228	12	215	404 18	19 63	384 55	32 05	1 79	70	94	1 05												
Miner .....	306	228	12	221	403 75	20 46	383 29	31 94	1 73	72	97	1 05												
Miner .....	306	228	12	221	403 78	20 50	383 28	31 94	1 73	72	97	1 05												
Miner .....	306	228	12	221	405 02	22 45	382 57	31 88	1 73	72	97	1 05												
Miner .....	306	228	12	227	402 98	20 81	382 17	31 85	1 68	74	100	1 05												
Miner .....	306	228	12	227	402 96	20 81	382 15	31 85	1 68	74	100	1 05												
Miner .....	306	228	12	216	405 30	23 25	382 05	31 84	1 77	70	95	1 05												
Miner .....	306	228	12	216	405 32	23 27	382 05	31 84	1 77	70	95	1 05												
Miner .....	306	228	12	224	408 41	26 39	382 02	31 84	1 71	73	98	1 05												
Miner .....	306	228	12	222	399 48	24 37	375 11	31 26	1 69	73	97	1 03												
Miner .....	306	228	12	222	399 49	24 39	375 10	31 26	1 69	73	96	1 03												
Miner .....	306	228	12	210	398 79	23 70	375 09	31 26	1 69	69	92	1 03												
Miner .....	306	228	12	215	393 08	23 32	369 76	30 81	1 72	70	94	1 01												
Miner .....	306	228	12	213	392 58	23 32	369 26	30 77	1 74	70	93	1 01												
Miner .....	306	228	12	222	390 29	21 99	368 30	30 70	1 66	73	97	1 01												
Miner .....	306	228	12	220	389 32	21 76	367 56	30 63	1 67	72	96	1 01												
Miner .....	306	228	12	218	380 78	15 63	365 15	30 60	1 68	71	96	1 01												
Miner .....	306	228	12	218	382 80	19 01	363 79	30 31	1 67	71	96	1 00												
Miner .....	306	228	12	223	382 26	19 34	362 92	30 24	1 63	73	98	99												
Miner .....	306	228	12	215	379 90	18 55	361 35	30 12	1 68	70	94	99												
Miner .....	306	228	12	216	373 70	20 12	353 58	29 47	1 64	70	95	97												
Miner .....	306	228	12	226	375 14	22 02	353 12	29 43	1 56	74	99	97												
Miner .....	306	228	12	226	375 14	22 02	353 12	29 43	1 56	74	99	97												
Miner .....	306	228	12	224	377 33	25 16	352 17	29 35	1 57	73	98	96												
Miner .....	306	228	12	224	377 35	25 20	352 15	29 35	1 57	73	98	96												
Miner .....	306	228	12	223	362 88	13 24	349 64	29 24	1 57	73	98	96												
Miner .....	306	228	12	223	362 89	13 25	349 64	29 14	1 52	73	98	96												
Miner .....	306	228	12	221	359 63	21 42	338 21	28 18	1 53	72	97	93												
Miner .....	306	228	12	221	359 63	21 42	338 21	28 18	1 53	72	97	93												
Miner .....	306	228	12	211	351 37	15 62	335 75	27 98	1 59	69	93	92												
Miner .....	306	228	12	220	354 11	19 43	334 68	27 89	1 52	72	96	92												
Miner .....	306	228	12	225	344 84	16 84	328 00	27 33	1 46	74	99	90												
Miner .....	306	228	12	194	315 08	17 54	297 54	24 80	1 53	63	85	82												
Miner .....	281	212	11	208	471 93	25 33	446 60	40 60	2 15	74	98	1 34												
Miner .....	281	212	11	207	454 54	27 04	427 50	38 87	2 07	74	98	1 28												
Miner .....	280	212	11	204	416 97	24 12	392 85	35 71	1 93	73	96	1 17												
Miner .....	279	213	11	209	406 98	21 52	385 46	35 04	1 85	75	98	1 15												
Miner .....	279	213	11	213	405 93	21 20	384 73	34 98	1 81	76	100	1 15												
Miner .....	281	204	11	202	379 80	19 74	360 06	32 73	1 78	72	99	1 07												
Miner .....	281	212	11	209	383 09	25 03	358 06	32 55	1 71	74	98	1 07												
Miner .....	279	213	11	200	372 31	18 94	353 37	32 12	1 77	72	94	1 06												
Miner .....	280	204	11	197	362 98	17 48	345 50	31 41	1 75	70	97	1 03												
Miner .....	279	213	11	200	325 97	15 78	310 19	28 20	1 55	72	94	93												
Miner .....	280	212	11	197	320 56	19 08	301 48	27 41	1 53	70	93	90												
Miner .....	281	205	11	191	305 85	18 78	287 07	26 10	1 50	68	93	86												

Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner .....	280	204	11	141	\$228 12	\$17 06	\$211 12	\$19 20	\$1 50	50	69	\$0 63
Miner .....	279	213	11	213	133 96	7 06	126 90	11 54	60	76	100	38
Miner .....	254	192	10	169	399 80	21 84	377 96	37 79	2 24	67	88	1 24
Miner .....	252	186	10	181	365 35	18 38	347 00	34 70	1 92	72	97	1 15
Miner .....	254	192	10	162	333 02	15 04	316 98	31 70	1 96	64	84	1 04
Miner .....	254	197	10	175	329 87	18 43	311 44	31 14	1 78	69	90	1 03
Miner .....	254	192	10	155	319 82	22 16	297 66	29 76	1 91	61	81	0 98
Miner .....	232	183	9	183	308 60	15 88	292 72	32 52	1 60	79	100	1 06
Miner .....	230	183	9	165	292 75	16 73	276 02	30 67	1 67	72	100	1 01
Miner .....	229	155	9	151	239 91	12 41	227 50	25 30	1 51	66	97	83
Miner .....	229	155	9	151	239 91	12 45	227 46	25 30	1 61	66	97	83
Miner .....	229	165	9	152	240 77	14 52	226 25	25 15	1 49	66	92	83
Miner .....	229	155	9	110	155 59	9 79	145 80	16 20	1 33	48	71	53
Miner .....	202	142	8	141	280 96	11 89	269 07	33 51	1 91	70	100	1 11
Miner .....	203	139	8	126	273 51	12 33	261 18	32 65	2 07	62	90	1 08
Miner .....	203	156	8	119	249 99	16 83	233 16	29 14	1 96	59	76	96
Miner .....	202	140	8	130	240 17	13 10	227 07	28 38	1 75	64	93	94
Miner .....	202	140	8	130	228 28	8 52	219 76	27 47	1 69	64	93	90
Miner .....	203	139	8	137	224 63	8 49	216 14	27 02	1 58	67	98	89
Miner .....	204	149	8	146	205 84	8 31	197 53	24 70	1 35	72	98	81
Miner .....	180	134	7	132	248 13	14 39	233 74	33 40	1 77	73	99	1 09
Miner .....	177	130	7	118	247 50	13 78	233 72	33 39	1 98	67	91	1 10
Miner .....	178	123	7	116	248 04	14 46	233 58	33 37	2 01	65	94	1 10
Miner .....	176	141	7	127	245 26	13 67	231 59	33 07	1 82	72	90	1 10
Miner .....	178	123	7	117	227 95	15 92	212 03	30 29	1 81	66	95	1 00
Miner .....	179	143	7	137	208 65	10 80	197 85	28 26	1 44	77	96	92
Miner .....	175	115	7	114	184 47	10 45	174 02	24 86	1 53	65	100	82
Miner .....	179	129	7	122	180 63	10 58	170 05	21 29	1 40	70	95	79
Miner .....	180	127	7	123	172 47	9 11	163 36	23 34	1 33	68	97	76
Miner .....	177	130	7	128	91 08	4 97	86 11	12 30	67	72	98	41
Miner .....	151	117	6	116	248 01	11 52	236 49	39 41	2 04	77	100	1 24
Miner .....	153	124	6	119	224 93	10 26	214 67	35 78	1 80	78	96	1 17
Miner .....	151	117	6	110	216 72	11 43	205 29	34 21	1 87	73	94	1 07
Miner .....	155	111	6	107	217 18	13 14	204 04	34 01	1 91	70	96	1 11
Miner .....	155	111	6	108	204 94	9 85	195 09	32 51	1 81	70	97	1 06
Miner .....	152	107	6	92	198 09	9 50	188 59	31 43	2 05	61	86	1 04
Miner .....	155	111	6	109	195 25	10 98	184 27	30 71	1 69	70	98	1 00
Miner .....	155	111	6	102	166 34	8 40	157 94	26 32	1 55	66	92	86
Miner .....	151	103	6	100	163 02	8 02	155 00	25 83	1 55	66	97	85
Miner .....	155	111	6	109	161 54	6 98	154 56	25 76	1 42	70	98	84
Miner .....	151	108	6	85	156 30	10 88	145 42	24 24	1 71	56	79	80
Miner .....	154	121	6	117	141 72	6 22	135 50	22 58	1 16	76	97	74
Miner .....	149	88	6	75	137 64	5 38	132 26	22 04	1 76	50	85	73
Miner .....	129	98	5	90	262 74	16 15	246 59	49 32	2 74	70	90	1 61
Miner .....	129	98	5	91	172 07	8 14	163 93	32 79	1 80	70	90	1 07
Miner .....	126	87	5	84	163 96	7 78	156 18	31 24	1 86	67	97	1 03
Miner .....	128	96	5	91	139 91	8 01	131 90	26 40	1 46	71	95	86
Miner .....	149	98	5	92	131 11	6 31	124 80	24 96	1 36	71	94	82
Miner .....	128	88	5	85	122 78	4 70	118 08	33 61	1 39	67	97	78
Miner .....	124	76	5	59	101 97	6 49	95 48	19 10	1 62	48	78	73

Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	103	89	4	89	\$224 72	\$13 46	\$211 26	\$50 32	\$2 37	87	100	\$1 73
Miner.....	104	87	4	87	136 11	5 64	130 47	32 62	1 50	84	100	1 07
Miner.....	102	83	4	75	121 68	7 53	114 15	28 54	1 52	74	90	94
Miner.....	100	60	4	60	107 14	5 19	101 95	25 49	1 70	60	100	85
Miner.....	101	87	4	84	91 37	4 52	86 85	21 71	1 03	80	96	71
Miner.....	99	52	4	40	79 25	3 50	75 75	18 94	1 89	40	77	63
Miner.....	77	73	3	73	188 64	7 76	180 88	60 29	2 48	95	100	2 00
Miner.....	77	73	3	60	162 60	8 82	153 78	51 26	2 56	80	82	1 67
Miner.....	77	73	3	73	142 21	7 76	134 45	44 82	1 84	99	100	1 46
Miner.....	77	65	3	65	135 04	5 56	129 48	43 16	1 99	83	100	1 41
Miner.....	77	72	3	65	136 16	9 28	126 88	42 29	1 95	83	90	1 39
Miner.....	78	66	3	65	114 01	6 37	107 64	35 88	1 66	83	100	1 18
Miner.....	77	72	3	62	99 27	3 98	95 29	31 76	1 54	80	86	1 05
Miner.....	77	73	3	49	96 63	3 97	92 66	30 88	1 81	64	67	1 01
Miner.....	77	62	3	48	87 75	4 10	83 65	27 88	1 74	62	77	91
Miner.....	74	44	3	35	81 89	4 68	77 21	25 74	2 21	47	80	87
Miner.....	79	58	3	51	47 45	3 01	44 44	14 81	87	65	88	48
Miner.....	51	47	2	46	101 38	4 55	96 83	48 42	2 10	90	100	1 59
Miner.....	51	47	2	47	96 55	4 28	92 27	46 13	1 96	92	96	1 51
Miner.....	51	47	2	47	94 30	3 93	90 37	45 22	1 92	92	100	1 48
Miner.....	51	47	2	47	95 08	5 13	89 95	44 97	1 91	92	100	1 47
Miner.....	51	46	2	47	92 49	5 49	87 00	43 50	1 90	90	100	1 43
Miner.....	52	51	2	50	89 49	3 79	85 70	42 85	1 71	96	98	1 40
Miner.....	51	47	2	44	87 00	5 96	81 04	40 52	1 84	86	94	1 33
Miner.....	51	47	2	35	74 67	4 19	70 48	35 24	2 01	70	74	1 16
Miner.....	51	47	2	30	56 37	3 17	53 20	26 60	1 77	60	64	87
Miner.....	50	35	2	34	57 11	4 02	53 09	26 54	1 56	68	97	87
Miner.....	49	28	2	28	53 03	2 76	50 27	25 13	1 80	57	100	85
Miner.....	51	29	2	29	46 59	3 41	43 18	21 59	1 49	57	100	70
Miner.....	51	24	2	24	45 11	2 95	42 16	21 08	1 76	47	100	68
Miner.....	50	32	2	31	43 23	2 89	40 34	20 17	1 30	62	97	66
Miner.....	48	28	2	21	31 74	2 16	29 58	14 79	1 41	44	75	50
Miner.....	50	35	2	34	28 55	2 00	26 55	13 27	78	68	97	44
Miner.....	25	23	1	23	56 75	2 13	54 62	54 62	2 37	92	100	1 76
Miner.....	25	23	1	23	56 56	2 47	54 09	54 09	2 35	92	100	1 74
Miner.....	25	24	1	22	47 48	1 95	45 53	45 53	2 07	90	92	1 52
Miner.....	25	23	1	23	47 72	2 28	45 44	45 44	1 98	92	100	1 47
Miner.....	25	23	1	23	38 82	2 12	36 70	36 70	1 60	92	100	1 18
Miner.....	25	23	1	23	38 82	2 12	36 70	36 70	1 60	92	100	1 18
Miner.....	25	16	1	14	36 41	2 08	34 33	34 33	2 45	56	88	1 11
Miner.....	25	16	1	16	28 77	1 40	27 37	27 37	1 71	64	100	87
Miner.....	25	16	1	15	25 32	1 40	23 92	23 92	1 59	60	94	77
Miner.....	26	24	1	13	25 41	2 03	23 38	23 38	1 80	50	54	78
Miner.....	26	24	1	13	25 41	2 03	23 38	23 38	1 80	50	54	78
Miner.....	26	16	1	16	24 31	1 15	23 16	23 16	1 45	64	100	75
Miner.....	27	27	1	27	23 52	64	22 88	22 88	85	100	100	74
Miner.....	25	16	1	16	22 45	68	21 77	21 77	1 36	64	103	70
Miner.....	25	23	1	14	24 20	2 48	21 72	21 72	1 55	56	61	70
Miner.....	25	16	1	16	21 32	42	20 90	20 91	1 31	100	100	67
Miner.....	25	16	1	16	20 74	1 08	19 66	19 66	1 23	64	100	63

Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Gross earnings of employé for the time he appears on the pay-roll.	Deductions for powder, oil and smithing.	Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Percentage of running time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	Am't.	Am't.	Am't.	Am't.	Am't.	Time	Time	Am't.
Miner.....	26	16	1	15	\$21 71	\$2 13	\$19 58	\$19 58	\$1 31	53	94	\$0 65
Miner.....	25	24	1	15	19 54	1 29	18 25	18 25	1 76	96	100	61
Miner.....	25	16	1	15	19 36	1 29	18 07	18 07	1 20	60	94	60
Miner.....	25	16	1	15	19 12	1 06	18 06	18 07	1 20	60	94	60
Miner.....	25	16	1	15	16 96	34	16 62	16 62	1 11	60	94	53
Miner.....	25	16	1	15	16 96	34	16 62	16 62	1 11	60	94	53
Miner.....	25	16	1	16	15 82	43	15 39	15 39	1 96	64	100	50
Miner.....	25	11	1	10	14 0.	74	13 32	13 32	1 33	40	91	43
Miner.....	27	27	1	8	12 67	2 25	10 42	10 42	1 30	30	30	34
Miner.....	23	16	1	16	11 17	1 00	10 17	10 17	64	60	100	33

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATION.	Possible working time, omitting Sundays and holidays.	Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Amt	Time	Am't.
Pit-boss.....	280	202	11	334	\$100 00	.....	.....	\$1,100 00	\$100 00	\$3 29	119	\$3 29
Boss carpenter.	27	15	1	29	.....	\$2 50	.....	72 50	72 50	2 50	107	2 34
Engineer .....	306	228	12	338	65 00	.....	.....	714 68	59 56	2 11	110	1 96
Engineer .....	306	228	12	365	65 00	.....	.....	600 00	50 00	1 64	119	1 64
Engineer .....	280	202	11	319	50 00	.....	.....	525 00	47 73	1 65	114	1 57
Engineer .....	52	42	2	61	50 00	.....	.....	100 00	50 00	1 64	117	1 64
Engineer.....	26	26	1	28½	.....	2 00	.....	57 00	57 00	2 00	109	1 84
Foreman, top...	280	202	11	270	.....	2 00	.....	540 00	49 09	2 00	96	1 62
Foreman, top...	25	21	1	9	.....	2 00	.....	18 00	18 00	2 00	36	60
Fireman .....	306	228	12	278	.....	1 75	\$1 60	445 28	37 11	1 60	91	1 22
Fireman .....	77	50	3	25	.....	1 75	1 50	37 62	12 54	1 50	32	41
Fireman .....	25	23	1	14½	.....	1 75	.....	25 27	25 27	1 75	57	82
Fireman .....	25	16	1	12	.....	1 75	.....	21 00	21 00	1 75	48	68
Fireman .....	25	16	1	7	.....	1 75	.....	12 25	12 25	1 75	28	40
Weighman.....	281	217	11	202½	.....	2 00	.....	406 00	36 91	2 00	72	1 21
Weighman .....	25	11	1	9½	.....	2 00	.....	18 50	18 50	2 00	37	68

Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.....		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.										
Blacksmith.....	155	111	6	125			\$2 00		\$242 68	\$40 45	\$1 94	81	\$1 32									
Blacksmith.....	103	89	4	94%			2 00		189 50	47 38	2 00	91	1 55									
Blacksmith.....	98	75	4	22			2 00		37 91	9 48	1 72	22	32									
Blacksmith.....	74	44	3	41%			1 75	\$1 50	83 50	27 83	2 00	56	94									
Blacksmith.....	26	13	1	11			2 00		22 00	22 00	2 00	42	71									
Teamster.....	178	123	7	100%		\$40 00			132 75	18 97	1 32	56	62									
Teamster.....	128	105	5	75		40 00			98 05	15 61	1 31	59	64									
Carpenter.....	77	60	3	33			2 00		66 00	22 00	2 00	43	73									
Carpenter.....	79	65	3	21			2 25		45 86	15 29	2 18	27	50									
Carpenter.....	52	36	2	25			2 00		50 00	25 00	2 00	48	82									
Carpenter.....	27	15	1	28%			2 00		57 00	57 00	2 00	16	1 84									
Carpenter.....	27	15	1	28%			2 00		57 00	57 00	2 00	16	1 84									
Carpenter.....	27	15	1	28			2 00		56 00	56 00	2 00	104	1 81									
Carpenter.....	26	26	1	21			2 00		42 00	42 00	2 00	81	1 35									
Machinist.....	52	42	2	12	90 00				30 62	15 31	2 55	23	50									
Mule-feeder....	306	228	12	340%			1 50		510 37	42 53	1 50	111	1 40									
Laborer.....	306	228	12	247			2 00		485 25	40 44	1 96	81	1 33									
Laborer.....	306	228	12	265%			1 75	1 50	458 32	38 19	1 35	87	1 26									
Laborer.....	306	228	12	233%			2 00	1 50	457 64	38 14	1 96	76	1 25									
Laborer.....	306	228	12	252%			2 00	1 50	442 62	36 89	1 75	82	1 21									
Laborer.....	306	228	12	222			1 50		333 38	27 95	1 50	73	91									
Laborer.....	281	217	11	225%			1 50		338 22	30 75	1 50	80	1 01									
Laborer.....	281	207	11	159%			2 00	1 50	307 69	27 97	1 93	57	92									
Laborer.....	256	196	10	196%			1 75	1 50	296 23	29 62	1 51	77	97									
Laborer.....	233	172	9	159%			2 00	1 25	212 23	23 45	1 33	69	77									
Laborer.....	202	141	8	140			2 00	1 50	271 60	33 95	1 94	69	1 12									
Laborer.....	150	92	6	108%			1 75	1 50	170 34	28 39	1 57	72	95									
Laborer.....	153	112	6	224%			1 75		35 73	5 96	1 61	14	20									
Laborer.....	129	98	5	94%			1 75	1 50	142 23	28 45	1 50	73	93									
Laborer.....	128	86	5	89%			1 50		134 24	26 85	1 50	70	88									
Laborer.....	127	98	5	50%			2 00	1 50	64 62	12 92	1 28	40	42									
Laborer.....	129	98	5	86%			1 00	50	43 62	8 72	51	67	29									
Laborer.....	129	103	5	15%			1 75	1 50	25 25	5 05	1 63	12	17									
Laborer.....	100	52	4	61%			1 50		89 47	22 37	1 50	62	75									
Laborer.....	101	72	4	42%			2 00	1 50	77 54	19 38	1 82	42	65									
Laborer.....	77	62	3	75			1 50		112 50	37 50	1 50	97	1 22									
Laborer.....	79	63	3	49%			1 50		74 62	24 87	1 50	63	81									
Laborer.....	77	92	3	33			1 75	1 50	55 62	18 54	1 66	43	1 07									
Laborer.....	77	72	3	31%			1 50		46 87	15 62	1 50	41	52									
Laborer.....	77	52	3	17%			2 00	1 50	32 62	10 87	1 86	23	35									
Laborer.....	79	63	3	21%			1 75	1 50	31 68	10 56	1 47	27	34									
Laborer.....	74	90	3	20%			1 50		30 75	10 25	1 50	28	34									
Laborer.....	76	40	3	16%			1 75		25 49	8 50	1 56	21	28									
Laborer.....	79	58	3	14			1 75	1 50	22 87	7 62	1 63	18	25									
Laborer.....	79	58	3	11			1 75	1 50	18 50	6 17	1 68	14	20									
Laborer.....	52	42	2	43%			1 60		68 55	34 28	1 60	84	1 12									
Laborer.....	52	51	2	45%			1 50		67 54	33 77	1 49	88	1 11									
Laborer.....	52	42	2	40%			1 60		63 75	31 88	1 60	78	1 05									
Laborer.....	52	50	2	40%			1 50		60 37	30 18	1 50	77	99									
Laborer.....	52	42	2	35			1 60		54 95	27 48	1 60	67	90									
Laborer.....	52	27	2	27%			1 75	1 50	46 37	23 19	1 69	53	75									



Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.		Am't.	Am't.	Time	Am't.
Laborer .....	52	38	12	27	.....	\$1 75	\$1 50	.....	.....	\$43 25	\$21 62	\$1 60	52	\$0 70
Laborer .....	50	39	12	27 $\frac{3}{4}$	.....	1 75	1 50	.....	.....	42 83	21 42	1 54	56	73
Laborer .....	52	31	12	23 $\frac{1}{2}$	.....	1 75	1 50	.....	.....	37 62	18 81	1 67	43	61
Laborer .....	52	36	12	20	.....	1 50	.....	.....	.....	30 00	15 00	1 50	38	49
Laborer .....	50	35	12	19	.....	1 50	.....	.....	.....	27 45	13 73	1 44	38	45
Laborer .....	25	16	1	28 $\frac{1}{4}$	.....	1 75	.....	.....	.....	49 43	49 43	1 75	113	1 59
Laborer .....	25	16	1	27 $\frac{3}{4}$	.....	2 00	1 75	.....	.....	48 62	48 62	1 77	110	1 57
Laborer .....	25	21	1	24	.....	1 50	.....	.....	.....	36 00	36 00	1 50	96	1 20
Laborer .....	25	16	1	16 $\frac{3}{4}$	.....	1 75	.....	.....	.....	28 43	28 43	1 75	65	92
Laborer .....	27	15	1	17	.....	1 50	.....	.....	.....	25 50	25 50	1 50	63	82
Laborer .....	27	15	1	15	.....	1 50	.....	.....	.....	22 50	22 50	1 50	56	73
Laborer .....	27	15	1	15	.....	1 50	.....	.....	.....	22 50	22 50	1 50	65	73
Laborer .....	25	16	1	11 $\frac{3}{4}$	.....	1 75	.....	.....	.....	20 56	20 56	1 75	47	66
Laborer .....	25	16	1	11 $\frac{1}{2}$	.....	1 75	1 50	.....	.....	20 00	20 00	1 74	46	65
Laborer .....	25	24	1	13	.....	1 50	.....	.....	.....	19 50	19 50	1 50	52	65
Laborer .....	25	24	1	13	.....	1 75	.....	.....	.....	19 50	19 50	1 50	52	65
Laborer .....	25	16	1	11	.....	1 75	.....	.....	.....	19 25	19 25	1 75	44	62
Laborer .....	25	11	1	11 $\frac{1}{4}$	.....	1 50	.....	.....	.....	16 87	16 87	1 50	44	54
Laborer .....	27	15	1	11	.....	1 50	.....	.....	.....	16 50	16 50	1 50	40	55
Laborer .....	27	15	1	10 $\frac{1}{2}$	.....	1 50	.....	.....	.....	15 75	15 75	1 50	39	51
Laborer .....	27	15	1	10	.....	1 50	.....	.....	.....	15 00	15 00	1 50	37	48
Laborer .....	27	15	1	9 $\frac{3}{4}$	.....	1 50	.....	.....	.....	14 62	14 62	1 50	36	47
Laborer .....	24	15	1	9 $\frac{1}{2}$	.....	1 50	.....	.....	.....	14 25	14 25	1 50	35	46
Laborer .....	25	16	1	7 $\frac{3}{4}$	.....	1 75	.....	.....	.....	13 56	13 56	1 75	31	44
Laborer .....	27	15	1	9	.....	1 50	.....	.....	.....	13 50	13 50	1 50	33	44
Laborer .....	27	15	1	9	.....	1 50	.....	.....	.....	13 50	13 50	1 50	33	44
Laborer .....	27	15	1	9	.....	1 50	.....	.....	.....	13 50	13 50	1 50	33	44
Laborer .....	27	16	1	7 $\frac{1}{2}$	.....	1 75	.....	.....	.....	13 12	13 12	1 75	30	42
Laborer .....	27	16	1	7 $\frac{1}{2}$	.....	1 75	.....	.....	.....	13 12	13 12	1 75	30	42
Laborer .....	27	15	1	8 $\frac{3}{4}$	.....	1 50	.....	.....	.....	12 75	12 75	1 50	31	41
Laborer .....	25	16	1	7 $\frac{3}{4}$	.....	1 75	.....	.....	.....	12 68	12 68	1 75	30	41
Laborer .....	25	15	1	8 $\frac{1}{4}$	.....	1 50	.....	.....	.....	12 37	12 37	1 50	31	40
Laborer .....	25	16	1	7	.....	1 75	.....	.....	.....	12 25	12 25	1 75	28	40
Laborer .....	25	15	1	7 $\frac{1}{4}$	.....	1 50	.....	.....	.....	11 62	11 62	1 50	29	37
Laborer .....	27	15	1	7	.....	1 50	.....	.....	.....	10 50	10 50	1 50	26	34
Laborer .....	25	16	1	6	.....	1 75	.....	.....	.....	10 50	10 50	1 75	24	34
Laborer .....	25	16	1	5 $\frac{3}{4}$	.....	1 75	.....	.....	.....	10 06	10 06	1 75	21	32
Laborer .....	27	15	1	6 $\frac{1}{2}$	.....	1 50	.....	.....	.....	9 75	9 75	1 50	24	31
Laborer .....	27	15	1	6 $\frac{1}{2}$	.....	1 50	.....	.....	.....	9 75	9 75	1 50	24	31
Driver .....	306	228	12	235	.....	2 00	1 50	.....	.....	457 43	38 12	1 95	76	1 25
Driver .....	306	228	12	209 $\frac{1}{4}$	.....	1 60	1 50	.....	.....	327 48	27 29	1 56	68	90
Driver .....	283	216	11	152 $\frac{3}{4}$	.....	2 00	1 50	.....	.....	302 69	27 52	1 98	54	90
Driver .....	254	192	10	171	.....	2 00	1 50	.....	.....	331 10	33 11	1 94	67	1 09
Driver .....	253	200	10	156 $\frac{1}{2}$	.....	2 00	1 50	.....	.....	306 00	30 60	1 95	62	1 01
Driver .....	254	192	10	135 $\frac{1}{4}$	.....	2 00	1 50	.....	.....	262 19	26 22	1 94	53	86
Driver .....	258	200	10	185 $\frac{1}{2}$	.....	2 00	1 00	.....	.....	251 40	25 14	1 36	72	82
Driver .....	204	242	8	88 $\frac{1}{2}$	.....	2 00	1 75	.....	.....	171 05	21 38	1 93	43	1 13
Driver .....	206	158	8	36 $\frac{1}{4}$	.....	2 00	1 50	.....	.....	73 06	9 13	2 02	18	30
Driver .....	178	123	7	119 $\frac{1}{2}$	.....	2 00	1 50	.....	.....	220 20	32 89	1 93	67	1 09

Table XXVII.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.										
Driver .....	151	108	6	74½	.....	\$2 00	\$1 50	\$115 54	\$19 26	\$1 55	49	\$0 64										
Driver .....	152	103	6	23¾	.....	2 00	1 75	47 37	7 90	1 99	16	26										
Driver .....	129	98	5	101¾	.....	2 00	1 50	196 05	39 21	1 93	79	1 28										
Driver .....	128	96	5	87¾	.....	2 00	1 50	172 70	34 54	1 98	68	1 13										
Driver .....	103	60	4	61¾	.....	2 00	1 50	119 10	23 78	1 93	60	97										
Driver .....	102	63	4	58¾	.....	2 00	1 50	104 00	26 00	1 78	57	85										
Driver .....	104	79	4	37¾	.....	2 00	1 50	62 68	15 67	1 66	36	51										
Driver .....	51	47	2	41½	.....	2 00	1 75	81 29	40 64	1 96	81	1 37										
Driver .....	51	47	2	31¾	.....	2 00	1 75	67 33	33 67	1 97	67	1 10										
Driver .....	52	50	2	23¾	.....	2 00	1 75	46 48	23 24	1 96	46	76										
Driver .....	27	27	1	9	.....	2 00	.....	18 00	18 00	2 00	33	58										
Dumper.....	306	228	12	264¾	.....	1 75	1 50	396 09	33 01	1 12	87	1 09										
Roadman.....	176	124	7	172¾	.....	2 00	.....	343 10	49 01	2 00	98	1 62										
Roadman.....	79	63	3	57½	.....	2 00	1 50	109 50	36 50	1 90	73	1 19										
Roadman.....	27	15	1	25	.....	2 00	.....	50 00	50 00	2 00	93	1 61										
Loader .....	279	213	11	208¾	.....	1 60	1 50	312 64	28 42	1 50	75	94										
Loader .....	27	15	1	9½	.....	1 50	.....	14 25	14 25	1 50	35	46										
Cager.....	229	156	9	133½	.....	1 75	1 00	160 07	20 01	1 20	58	58										
Cager.....	51	47	2	21	.....	2 00	1 50	31 90	15 95	1 52	51	52										
Oiler .....	151	101	6	54	.....	1 50	75	70 23	11 71	1 30	36	39										
Oiler .....	126	87	5	75½	.....	70	60	45 67	9 13	60	60	35										
Oiler .....	77	73	3	62½	.....	1 00	75	50 10	16 70	80	81	54										
Oiler.....	25	21	1	20½	.....	60	.....	12 30	12 30	60	82	41										
Timberman.....	53	28	2	24	.....	2 00	.....	47 30	23 65	1 97	45	76										
Timberman.....	27	15	1	15½	.....	2 00	1 75	30 50	30 50	2 00	56	98										
Timberman.....	27	15	1	10	.....	2 00	.....	18 06	18 06	1 81	37	58										
Helper.....	26	26	1	8½	.....	1 75	.....	14 87	14 87	1 75	33	48										
Pusher.....	25	23	1	16½	.....	1 25	1 00	19 65	19 65	1 19	66	63										

## RECAPITULATION—Establishment X.

## MINERS, PAID BY THE TON.

No. OF MEN.	No. of months on the pay- roll.	Gross earnings.	Deductions.	Net earnings.	AVERAGES.				
					Net earnings per man for period employed.	Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
83	12 Months....	\$36,592 04	\$1,967 35	\$34,624 69	\$417 16	\$34 76	71.7	\$1 91	\$1 14
14	11 ..	4,969 00	278 10	4,690 90	335 06	30 42	71.3	1 68	1 00
5	10 ..	1,746 89	95 85	1,651 04	330 21	33 02	67.	1 96	1 08
6	9 ..	1,477 53	81 78	1,395 75	232 62	25 84	66.1	1 53	85
7	8 ..	1,703 98	79 47	1,623 91	232 00	29 00	65.4	1 75	95
10	7 ..	2,054 18	118 13	1,936 05	193 60	27 66	69.5	1 57	91
13	6 ..	2,431 68	122 56	2,309 12	183 93	30 65	68.	1 71	96
7	5 ..	1,094 54	57 58	1,036 96	148 14	29 63	66.3	1 75	99
6	4 ..	760 27	39 84	720 43	120 07	30 01	70.8	1 66	99
11	3 ..	1,291 64	65 28	1,226 36	111 49	37 16	76.5	1 90	1 22
16	2 ..	1,092 69	60 68	1,032 01	64 50	32 25	73.2	1 74	1 06
27	1 ..	731 38	39 33	692 05	25 63	25 63	67.	1 48	83
205	.....	\$55,945 22	\$3,005 95	\$52,939 27	.....	\$32 90	70.5	\$1 83	\$1 05

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

OCCUPATIONS.	Number of men.	Working time.	Net earnings.	AVERAGES.				
		Days.		Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.	
Pit-boss .....	1	11 mos.	\$1,100 00	\$100 00	100	\$3 92	\$3 33	
Engineers .....	5	1,111 $\frac{1}{2}$	1,996 68	52 86	100	1 81	1 73	
Firemen .....	5	336 $\frac{1}{2}$	541 42	21 63	51	1 67	71	
Foremen, top .....	2	279	553 00	33 55	66	2 00	1 11	
Weighmen .....	2	211 $\frac{1}{2}$	423 50	27 70	52	2 00	90	
Boss carpenter .....	1	29	72 50	72 50	100	2 50	2 34	
Carpenters .....	7	185	373 86	39 18	48	2 00	1 27	
Blacksmiths .....	5	294 $\frac{1}{2}$	575 59	29 42	58	1 93	97	
Teamsters .....	2	175 $\frac{1}{2}$	230 00	17 29	57	1 31	63	
Machinist .....	1	12	30 62	15 31	23	2 55	1 50	
Mule-tender .....	1	340 $\frac{1}{2}$	510 37	42 52	100	1 50	1 40	
Laborers .....	74	3,696 $\frac{1}{2}$	5,997 73	24 99	50.4	1 63	68	
Drivers .....	21	2,043	3,743 14	26 93	54.4	1 87	88	
Dumper .....	1	264 $\frac{1}{2}$	396 09	33 01	87	1 12	1 09	
Roadmen .....	3	254 $\frac{1}{2}$	502 60	45 17	88	1 97	1 47	
Timbermen .....	3	49 $\frac{1}{2}$	95 86	24 07	46	1 93	77	
Loaders .....	2	217 $\frac{1}{2}$	326 89	21 34	55	1 45	70	
Cagers .....	2	154 $\frac{1}{2}$	191 97	17 98	54	1 36	55	
Oilers, boys .....	4	212 $\frac{1}{2}$	178 30	12 46	67	82	42	
Helper .....	1	8 $\frac{1}{2}$	14 87	14 87	33	1 75	48	
Pusher .....	1	16 $\frac{1}{2}$	19 65	19 65	66	1 19	63	
	144	10,226 $\frac{1}{2}$	\$17,881 44					

TABLE XXVIII.—Establishment X.

*Classification of the average monthly earnings of all coal miners who appeared on the foregoing pay-rolls during the year.*

No. of MONTHS.	NUMBER OF MEN RECEIVING SPECIFIED MONTHLY EARNINGS FOR SPECIFIED NUMBER OF MONTHS.													Total men.
	Under \$20.	\$20 to \$25.	\$25 to \$30.	\$30 to \$35.	\$35 to \$40.	\$40 to \$45.	\$45 to \$50.	\$50 to \$55.	\$55 to \$60.	\$60 to \$65.	\$65 to \$70.	\$70 to \$75.	Over \$75.	
12 M'ns	.....	1	12	41	20	5	1	.....	1	1	1	.....	.....	83
11 "	2	.....	3	5	3	1	.....	.....	.....	.....	.....	.....	.....	14
10 "	.....	.....	1	3	1	.....	.....	.....	.....	.....	.....	.....	.....	5
9 "	1	.....	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
8 "	.....	1	4	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
7 "	1	3	1	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
6 "	.....	3	3	5	2	.....	.....	.....	.....	.....	.....	.....	.....	13
5 "	1	2	1	2	.....	1	.....	.....	.....	.....	.....	.....	.....	7
4 "	1	1	2	1	.....	.....	.....	1	.....	.....	.....	.....	.....	6
3 "	1	.....	2	2	1	3	.....	1	.....	1	.....	.....	.....	11
2 "	2	3	3	.....	1	4	3	.....	.....	.....	.....	.....	.....	16
1 "	11	8	1	1	2	.....	2	2	.....	.....	1	.....	.....	27
Totals.	*20	22	36	69	30	14	6	4	1	2	2	.....	.....	+205

\* Average earnings \$15.81 for an average of 14.6 days' work.

+ Average earnings of all men \$32.90 per month.

Number who earned more than the average, 82, or 40 per cent. of the whole.

Number who earned less than the average, 123, or 60 per cent. of the whole.

**TABLE XXIX.--Summaries of Results Shown by Monthly Pay-Rolls.****ESTABLISHMENT XI.—Coal Mine in Madison County.**

CONDITIONS:—Depth of shaft, 168 feet; thickness of coal, 7 feet; working places, dry; system of working, pillar-and-room; mining done with machines; operatives paid from \$1.25 to \$2.50 a day; seam level and uniform.

**MACHINE OPERATIVES, PAID BY THE DAY.**

MONTHS.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		Whole number of men on the pay-roll during the month.		Whole number of days' work performed during the month.		Whole number of tons of coal mined and delivered.		Net earnings of all the men employed during the month.		Average net earnings per man per month.		Average net earnings per man per day.		Average number of tons mined per man per day.		Average number of days' work performed per man.		Number of men required to produce same tonnage if at work full running time.	
	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.
	Days	Days	Men.	Days.	Tons.	Amount.	Am't.	Am't.	Tons	Days	Men.											
May .....	26	16½	88	1,348½	6,420	\$2,430 50	\$27 62	\$1 80	4.76	15.3	52											
June .....	26	15	83	1,210½	5,677	2,198 09	24 08	1 82	4.69	14.6	47											
July .....	27	15½	89	1,514½	7,110	2,734 84	30 73	1 81	4.69	17.	61											
August .....	27	21	98	2,139½	10,447	3,887 85	39 67	1 82	4.88	21.8	79											
September .....	25	23	93	2,001	9,782	3,653 70	39 29	1 83	4.89	21.5	80											
October .....	27	24½	130	2,619	12,673	4,884 11	37 57	1 86	4.84	20.1	97											
November .....	25	18½	134	2,206½	10,075	4,074 22	30 40	1 85	4.57	16.5	88											
December .....	25	16	132	1,944	9,206	3,578 17	27 11	1 84	4.74	14.7	78											
January .....	26	16¾	134	1,959½	9,210	3,602 87	26 89	1 84	4.70	14.6	75											
February .....	23	18	128	2,027	10,037	3,723 97	29 09	1 84	4.96	15.8	88											
March .....	25	15¾	114	1,622¾	8,005	2,955 63	25 93	1 82	4.93	14.2	65											
April .....	26	12	103	1,200¾	6,021	2,214 49	21 50	1 83	5.02	11.7	46											
The year .....	306	214¾	167	21,793¾	104,663	\$39,938 44	\$30 12	\$1 83	4.80	16.4	70											
Monthly Avs...	25.5	17.9	111	1,816	8,722	3,328 20	30 12	1 83	78.93	16.4	70											

**OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.**

May .....	26	16½	32	620¾		\$1,060 26	\$33 13	\$1 68	.....	19.7	.....
June .....	26	15	34	642½		1,092 35	32 13	1 70	.....	18.9	.....
July .....	25	15½	34	692¾		1,158 88	34 08	1 67	.....	20.4	.....
August .....	27	24	35	877¾		1,423 65	40 68	1 62	.....	25.	.....
September .....	25	23	35	833		1,346 16	38 46	1 62	.....	23.8	.....
October .....	27	24½	39	946		1,457 79	37 38	1 54	.....	24.5	.....
November .....	25	18½	39	808½		1,269 85	32 56	1 51	.....	20.7	.....
December .....	25	16	42	795½		1,262 85	30 07	1 59	.....	19.	.....
January .....	26	16¾	41	761		1,228 25	29 97	1 52	.....	18.6	.....
February .....	23	18	40	789		1,290 60	32 27	1 64	.....	19.7	.....
March .....	25	15¾	38	668½		1,104 63	29 07	1 65	.....	17.6	.....
April .....	26	12	35	561½		944 51	26 99	1 68	.....	16.1	.....
The year .....	306	214¾	47	9,005¾		\$14,640 48	\$32 97	\$1 63	.....	20.3	.....
Monthly Avs...	25.5	17.9	37	750¾		1,220 04	32 97	1 63	.....	20.3	.....
Grand totals...	306	214¾	*214	30,799	104,663	\$54,578 92	.....	.....	78.93	.....	.....
General Avs...	25.5	17.9	148	2,567	8,722	4,548 25	\$30 84	\$1 77	78.93	17.4	.....

\*In addition to these, 41 transient employés worked 1,754 days during the year and earned \$3,061.

TABLE XXX.--Individual Earnings and Working Time.

## ESTABLISHMENT XI.—Coal Mine in Madison County.

*Conditions of employment given at the head of preceding table.*

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days					High-est.	High-est.	Low-est.		Am't.	Am't.	Am't	Time	Am't.
Cutter .....	306	214¾	12	223¾	.....	.....	\$2 25	\$1 75	.....	\$544 12	\$45 34	\$2 13	73	.....	\$1 50
Cutter .....	306	214¾	12	231¾	.....	.....	2 25	1 75	.....	495 09	41 26	3 14	76	.....	1 36
Cutter .....	306	214¾	12	215½	.....	.....	2 25	.....	.....	481 49	40 12	2 24	70	.....	1 32
Cutter .....	306	214¾	12	209 ¾	.....	.....	2 25	.....	.....	468 82	39 07	2 24	68	.....	1 30
Cutter .....	306	214¾	12	208¾	.....	.....	2 25	.....	.....	454 91	37 91	2 23	67	.....	1 25
Cutter .....	306	214¾	12	199¾	.....	.....	2 25	.....	.....	448 26	37 36	2 25	65	.....	1 23
Cutter .....	306	214¾	12	199	.....	.....	2 25	.....	.....	444 16	37 01	2 23	65	.....	1 22
Cutter .....	256	188	10	149½	.....	.....	2 25	1 75	.....	332 24	33 22	2 23	60	.....	1 09
Blaster .....	306	214¾	12	228	.....	.....	2 25	.....	.....	512 98	42 75	2 25	75	.....	1 41
Blaster .....	306	214¾	12	227	.....	.....	2 25	1 75	.....	509 35	42 45	2 24	74	.....	1 40
Blaster .....	306	214¾	12	219	.....	.....	2 25	1 75	.....	472 72	39 40	2 15	72	.....	1 30
Blaster .....	306	214¾	12	207¾	.....	.....	2 25	.....	.....	463 04	38 59	2 23	68	.....	1 27
Blaster .....	306	214¾	12	208½	.....	.....	2 25	1 75	.....	462 50	38 54	2 22	68	.....	1 27
Blaster .....	254	184	10	185½	.....	.....	2 25	1 75	.....	414 79	41 48	2 27	73	.....	1 37
Blaster .....	296	153	8	129	.....	.....	2 25	.....	.....	288 13	36 02	2 23	63	.....	1 18
Blaster .....	181	135	7	133	.....	.....	2 25	.....	.....	299 21	42 75	2 25	73	.....	1 40
Blaster .....	177	121	7	104¾	.....	.....	2 25	.....	.....	233 55	33 36	2 23	60	.....	1 10
Timberman.....	306	214¾	12	202¾	.....	.....	2 25	1 75	.....	512 68	42 72	1 95	86	.....	1 40
Timberman.....	306	214¾	12	239¾	.....	.....	2 00	1 50	.....	465 37	38 78	1 94	78	.....	1 27
Timberman.....	306	214¾	12	219¾	.....	.....	2 25	2 00	.....	458 87	38 24	2 00	72	.....	1 26
Timberman.....	306	214¾	12	214¾	.....	.....	2 25	2 00	.....	450 73	37 56	2 10	70	.....	1 23
Timberman.....	306	214¾	12	231¾	.....	.....	2 00	1 75	.....	446 89	37 24	1 93	76	.....	1 22
Timberman.....	306	214¾	12	226¾	.....	.....	2 00	.....	.....	444 10	37 01	1 96	74	.....	1 22
Timberman.....	306	214¾	12	198½	.....	.....	2 25	2 00	.....	397 25	33 10	2 00	65	.....	1 09
Timberman.....	306	213¾	12	189½	.....	.....	2 00	.....	.....	379 00	31 60	2 00	62	.....	1 04
Timberman.....	125	78	5	61½	.....	.....	2 50	2 00	.....	123 62	24 72	2 01	50	.....	82
Timberman.....	26	17	1	12	.....	.....	2 00	.....	.....	24 00	24 00	2 00	46	.....	77
Helper.....	306	214¾	12	228¾	.....	.....	2 25	1 75	.....	448 57	37 38	1 96	75	.....	1 23
Helper.....	306	214¾	12	208	.....	.....	2 25	1 75	.....	425 71	35 48	2 05	68	.....	1 17
Helper.....	306	214¾	12	208	.....	.....	2 25	1 75	.....	417 33	34 78	2 01	68	.....	1 14
Helper.....	306	214¾	12	229½	.....	.....	2 25	1 75	.....	402 89	33 57	1 75	75	.....	1 10
Helper.....	306	214¾	12	202	.....	.....	2 25	1 75	.....	362 91	30 24	1 80	66	.....	99
Helper.....	306	214¾	12	197½	.....	.....	2 25	1 75	.....	361 54	30 13	1 83	65	.....	99
Helper.....	306	214¾	12	203¾	.....	.....	1 75	.....	.....	348 05	29 00	1 71	67	.....	95
Helper.....	306	214¾	12	182¾	.....	.....	2 25	1 75	.....	338 91	28 24	1 86	59	.....	96
Helper.....	306	214¾	12	202½	.....	.....	1 75	1 50	.....	331 85	27 65	1 64	66	.....	91
Helper.....	306	214¾	12	200¾	.....	.....	1 50	.....	.....	287 61	24 80	1 18	66	.....	82
Helper.....	306	214¾	12	195	.....	.....	1 50	.....	.....	292 48	24 37	1 50	64	.....	80
Helper.....	306	214¾	12	183¾	.....	.....	1 75	1 50	.....	277 03	23 09	1 51	60	.....	76
Helper.....	306	214¾	12	223¾	.....	.....	1 50	60	.....	239 80	19 98	1 07	73	.....	66
Helper.....	281	192	11	190¾	.....	.....	1 50	1 25	.....	263 56	23 96	1 39	68	.....	79
Helper.....	257	180	10	169	.....	.....	1 50	1 25	.....	253 05	25 30	1 59	62	.....	83

Table XXX.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.		Monthly rate of wages.	Daily rates of wages.			Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days		High-est.	High-est.	Low-est.	High-est.	Low-est.	Am't.	Am't.	Am't.	Time	Am't.			
Helper.....	229	168	9	148			\$1 75	\$1 50	\$238 00	\$26 44	\$1 60	65	\$0 87					
Helper.....	228	171	9	161½			1 50	1 25	230 98	25 66	1 43	71	84					
Helper.....	177	121	7	103½			1 75	1 50	175 34	25 05	1 69	60	83					
Helper.....	177	121	7	113¾			1 50		167 47	23 92	1 47	64	79					
Helper.....	177	121	7	108¾			1 50		162 76	23 25	1 50	62	77					
Helper.....	177	121	7	83¾			1 75	1 50	128 16	18 31	1 53	47	60					
Helper.....	150	96	6	85¾			1 50		127 21	21 20	1 48	57	70					
Helper.....	126	94	5	75			1 75	1 50	122 67	24 53	1 64	60	81					
Helper.....	126	94	5	70¾			1 50		105 74	21 15	1 50	55	70					
Helper.....	125	78	5	50¾			2 25	1 00	65 75	13 15	1 31	40	44					
Helper.....	104	71	4	75			1 50	1 25	97 90	24 32	1 30	72	80					
Helper.....	100	62	4	42¾			1 50		63 79	15 94	1 49	43	53					
Helper.....	77	59	3	31¾			1 75	1 50	57 56	19 19	1 66	45	63					
Helper.....	50	34	2	37			2 25	1 75	67 75	33 87	1 83	74	1 11					
Helper.....	49	35	2	23½			1 75		41 12	20 56	1 75	50	70					
Helper.....	52	43	2	20¾			1 75	1 50	31 17	15 58	1 50	40	51					
Loader.....	306	214¾	12	273			2 00	1 75	475 22	39 60	1 74	89	1 30					
Loader.....	306	214¾	12	205½			2 25	1 75	413 38	34 45	2 01	67	1 13					
Loader.....	306	214¾	12	222¾			2 25	1 75	407 06	33 92	1 83	73	1 12					
Loader.....	306	214¾	12	231¾			2 25	1 75	406 78	33 90	1 76	76	1 11					
Loader.....	306	212¾	12	204¾			2 25	1 75	403 14	33 60	1 97	67	1 10					
Loader.....	306	214¾	12	226¾			1 75		396 78	33 07	1 75	74	1 09					
Loader.....	306	214¾	12	22¾			1 75		379 01	31 60	1 71	72	1 04					
Loader.....	306	214¾	12	203½			2 25	1 75	377 05	31 42	1 85	67	1 03					
Loader.....	306	214¾	12	215½			1 75		375 36	31 28	1 74	70	1 03					
Loader.....	306	214¾	12	216½			1 75		374 29	31 19	1 73	71	1 03					
Loader.....	306	214¾	12	200¾			2 00	1 75	374 29	31 19	1 86	66	1 03					
Loader.....	306	214¾	12	213			1 75		371 00	30 92	1 74	70	1 02					
Loader.....	306	214¾	12	210¾			1 75		366 59	30 55	1 74	70	1 00					
Loader.....	306	214¾	12	204¾			1 75		357 22	29 77	1 74	67	98					
Loader.....	306	214¾	12	204¾			1 75		357 05	29 75	1 75	67	98					
Loader.....	306	214¾	12	203¾			1 75		356 18	29 68	1 75	67	98					
Loader.....	306	214¾	12	192			2 00	1 75	355 78	29 65	1 85	63	97					
Loader.....	306	214¾	12	202			1 75		353 83	29 50	1 75	66	97					
Loader.....	306	214¾	12	203			1 75		353 81	29 50	1 74	66	97					
Loader.....	306	214¾	12	201			1 75		351 70	29 31	1 75	66	96					
Loader.....	306	214¾	12	198			2 10	1 75	318 60	29 05	1 76	65	96					
Loader.....	306	214¾	12	198¾			1 75		316 55	28 88	1 75	65	95					
Loader.....	306	214¾	12	195½			1 75		314 09	28 51	1 75	64	94					
Loader.....	306	214¾	12	186			1 75		325 11	27 10	1 75	61	89					
Loader.....	280	203	11	198¾			2 00	1 75	343 40	31 22	1 73	71	1 03					
Loader.....	280	203	11	191¾			1 75		333 69	30 33	1 74	69	1 00					
Loader.....	281	199	11	182½			2 00	1 75	331 03	30 09	1 81	65	99					
Loader.....	280	203	11	162¾			1 75		284 77	25 89	1 75	58	85					
Loader.....	280	203	11	155½			2 00	1 75	274 11	24 92	1 75	56	82					
Loader.....	281	192	11	139¾			2 00	1 75	245 03	22 28	1 73	50	73					
Loader.....	254	184	10	191			1 75		334 21	33 42	1 75	75	1 10					
Loader.....	254	184	10	175½			1 75		306 75	30 67	1 75	69	1 01					
Loader.....	254	184	10	173½			1 75		303 25	30 32	1 75	69	1 00					
Loader.....	255	184	10	149			2 00	1 75	262 73	26 27	1 76	58	86					
Loader.....	228	171	9	168¾			2 00	1 75	317 38	35 26	1 89	74	1 16					

Table XXX.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running-time of the mine.	No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé ap- pears on the pay-roll.
	Days	Days					High- est.	Low- est.					
Loader.....	232	168	9	170%		\$1 75			\$298 36	\$33 15	\$1 75	74	\$1 08
Loader.....	229	168	9	158%		2 00	\$1 75		294 86	32 78	1 90	68	1 08
Loader.....	229	168	9	142%		2 25	1 75		278 92	30 99	1 96	62	1 02
Loader.....	229	168	9	150%		2 00	1 75		264 04	29 34	1 75	66	97
Loader.....	232	168	9	149%		1 75			262 03	29 11	1 75	65	95
Loader.....	229	168	9	142%		1 75			247 25	27 47	1 74	62	91
Loader.....	230	161	9	125%		2 25	1 75		220 53	24 50	1 76	55	81
Loader.....	202	143	8	129		2 25	1 75		228 88	28 61	1 77	64	95
Loader.....	206	153	8	128		1 75			223 27	27 91	1 74	63	91
Loader.....	202	143	8	117%		2 00	1 75		222 87	27 86	1 90	58	92
Loader.....	202	143	8	124		1 75			217 41	27 18	1 75	61	90
Loader.....	207	149	8	124%		1 75			215 56	26 94	1 73	60	88
Loader.....	203	140	8	112%		1 75			195 02	24 38	1 73	56	80
Loader.....	181	135	7	116%		1 75			202 73	28 96	1 74	64	95
Loader.....	177	121	7	111%		2 25	1 75		196 09	28 01	1 76	63	93
Loader.....	181	135	7	107%		1 75			187 40	26 77	1 74	60	88
Loader.....	177	121	7	108%		1 75			186 96	26 71	1 73	61	88
Loader.....	177	121	7	106		1 75			185 48	26 50	1 75	60	87
Loader.....	177	121	7	103%		1 75			180 67	25 81	1 75	58	85
Loader.....	177	121	7	102		1 75			178 48	25 50	1 75	58	84
Loader.....	177	121	7	102		1 75			176 73	25 25	1 73	58	84
Loader.....	177	121	7	100		2 00	1 75		176 48	25 21	1 76	56	83
Loader.....	177	121	7	96%		1 75			168 16	24 02	1 74	55	79
Loader.....	155	123	6	105%		1 75			184 61	30 75	1 75	68	1 00
Loader.....	156	96	6	98%		1 75			172 79	28 80	1 75	63	94
Loader.....	156	96	6	95%		1 75			166 49	27 75	1 74	62	90
Loader.....	151	109	6	95		1 75			164 83	27 47	1 74	63	91
Loader.....	150	96	6	94%		1 75			162 20	27 03	1 71	63	90
Loader.....	151	109	6	91		1 75			159 33	26 55	1 75	60	88
Loader.....	151	109	6	84%		1 75			147 88	24 65	1 75	56	81
Loader.....	150	96	6	81%		1 75			143 05	23 84	1 75	55	79
Loader.....	150	96	6	78%		1 75			137 10	22 85	1 74	53	76
Loader.....	151	109	6	64%		1 75			112 15	18 69	1 74	43	62
Loader.....	126	94	5	78%		1 75			136 92	27 38	1 75	64	91
Loader.....	126	94	5	78		1 75			136 38	27 28	1 75	62	90
Loader.....	126	94	5	76%		1 75			133 42	26 68	1 75	60	88
Loader.....	129	94	5	73%		1 75			128 18	25 64	1 75	57	84
Loader.....	126	94	5	70		1 75			121 79	24 36	1 74	55	81
Loader.....	126	94	5	65%		1 75			114 17	22 83	1 75	52	76
Loader.....	126	94	5	63%		1 75			110 85	22 17	1 74	51	73
Loader.....	126	94	5	61		1 75			106 75	21 35	1 75	50	71
Loader.....	126	94	5	60%		1 75			105 51	21 10	1 74	49	70
Loader.....	126	94	5	57%		1 75			98 97	19 79	1 73	45	66
Loader.....	126	94	5	54%		1 75			94 90	18 98	1 74	44	63
Loader.....	126	94	5	52		1 75			91 57	18 27	1 75	41	61
Loader.....	104	71	4	78		1 75			134 40	33 60	1 72	75	1 09
Loader.....	104	90	4	71%		1 75			124 41	31 10	1 74	70	1 02
Loader.....	104	71	4	57%		2 00	1 75		109 45	27 36	1 91	46	89
Loader.....	100	62	4	58%		1 75			102 36	25 59	1 75	59	85
Loader.....	100	62	4	57		1 75			99 75	24 94	1 75	57	83



Table XXX.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.		Actual working time of employé.		Monthly rate of wages.		Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.		Average monthly receipts for the months employé appears on the pay-roll.		Average daily earnings for the days actually at work.		Percentage of possible time actually at work.		Daily subsistence fund for the months employé appears on the pay-roll.	
	Days	Days	Mos.	Days	High-est.	High-est.	Low-est.	Am't.	Am't.	Am't	Time	Am't.										
Loader .....	104	71	4	57½	.....	\$1 75	.....	\$98 57	\$24 72	\$1 72	56	\$0 80										
Loader .....	103	76	4	54	.....	1 75	.....	94 49	23 62	1 75	53	77										
Loader .....	99	66	4	45½	.....	1 75	.....	78 83	19 71	1 74	45	65										
Loader .....	100	62	4	43½	.....	1 75	.....	75 32	18 83	1 74	43	63										
Loader .....	99	66	4	43	.....	1 75	.....	73 84	18 46	1 72	43	61										
Loader .....	100	62	4	42	.....	1 75	.....	73 23	18 30	1 74	42	61										
Loader .....	77	63	3	61½	.....	1 75	.....	106 92	35 64	1 74	81	1 16										
Loader .....	74	51	3	32¾	.....	1 75	.....	57 31	19 10	1 75	45	64										
Loader .....	50	34	2	34	.....	1 75	.....	59 49	29 70	1 75	68	97										
Loader .....	52	43	2	31¼	.....	1 75	.....	54 68	27 34	1 75	60	96										
Loader .....	52	43	2	27½	.....	1 75	.....	48 11	24 05	1 75	54	80										
Loader .....	50	34	2	21¾	.....	1 75	.....	38 06	19 03	1 75	44	62										
Loader .....	52	43	2	19	.....	1 75	.....	33 25	16 62	1 75	37	55										
Loader .....	51	27	2	19½	.....	1 75	.....	32 98	16 49	1 72	37	54										
Loader .....	49	35	2	15½	.....	1 75	.....	26 63	13 34	1 75	30	45										
Loader .....	26	17	1	19	.....	1 75	.....	33 25	33 25	1 75	73	1 07										
Loader .....	25	16	1	15¾	.....	1 75	.....	27 56	27 56	1 75	64	89										
Loader .....	25	16½	1	15½	.....	1 75	.....	27 12	27 12	1 75	64	87										
Loader .....	26	17	1	14	.....	1 75	.....	24 50	24 50	1 75	54	79										
Loader .....	26	17	1	13	.....	1 75	.....	22 75	22 75	1 75	50	73										
Loader .....	26	17	1	12	.....	1 75	.....	21 00	21 00	1 75	46	70										
Loader .....	26	17	1	10¾	.....	1 75	.....	17 93	17 93	1 75	40	58										
Loader .....	26	17	1	9	.....	1 75	.....	15 75	15 75	1 75	35	51										
Loader .....	26	17	1	7	.....	1 75	.....	12 25	12 25	2 75	27	40										

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

Pit-boss .....	306	365	12	365	.....	.....	.....	\$900 00	\$75 00	\$3 00	119	\$2 47
Engineer .....	306	365	12	365	.....	.....	.....	900 00	75 00	2 47	119	2 47
Engineer .....	306	365	12	365	.....	.....	.....	720 00	60 00	2 00	119	2 00
Engineer, night .....	306	365	12	365	.....	.....	.....	720 00	60 00	2 00	119	2 00
Blacksmith .....	306	365	12	365	.....	.....	.....	720 00	60 00	2 40	119	2 00
Blacksmith .....	306	365	12	301¼	.....	\$2 00	\$1 85	560 28	46 69	1 86	98	1 54
Blacksmith .....	306	365	12	220	.....	1 75	.....	384 55	32 05	1 75	72	1 05
Watchman .....	306	365	12	352	.....	1 75	1 50	505 01	42 09	1 43	115	1 43
Watchman .....	104	123	4	116	.....	.....	.....	132 09	33 02	1 14	112	1 14
Carpenter .....	306	365	12	379½	.....	1 75	.....	483 12	40 76	1 75	91	1 34
Carpenter .....	26	30	1	22½	.....	2 00	.....	45 00	45 00	2 00	87	1 50
Fireman .....	181	214	7	135½	.....	2 00	.....	271 50	38 78	2 00	75	1 27
Fireman .....	125	245	5	91¼	.....	2 00	1 50	178 50	35 70	1 96	73	73
Roadman .....	306	365	12	290½	.....	2 00	.....	580 30	48 36	2 00	95	1 59
Cartman .....	306	365	12	256	.....	1 75	.....	447 97	37 33	1 75	84	1 23
Cartman .....	25	31	1	18	.....	1 50	.....	27 00	27 00	1 50	72	87
Cartman .....	26	31	1	11	.....	1 75	.....	19 25	19 25	1 75	42	62

Table XXX.—Continued.

OCCUPATION.	Possible working time, omitting Sundays and holidays.		Actual running time of the mine.		No. of months employé appears on the pay-roll.	Actual working time of employé.	Monthly rate of wages.	Daily rates of wages.		Net earnings of employé for the time he appears on the pay-roll.	Average monthly receipts for the months employé appears on the pay-roll.	Average daily earnings for the days actually at work.	Percentage of possible time actually at work.	Daily subsistence fund for the months employé appears on the pay-roll.
	Days	Days	Mos.	Days				High-est.	High-est.					
Driver .....	306	365	12	238½	.....		\$1 75	.....	\$414 48	\$34 54	\$1 75	78	\$1 14	
Driver .....	306	365	12	227	.....		2 00	\$1 75	396 21	33 02	1 75	74	1 09	
Driver .....	306	365	12	211½	.....		1 75	.....	369 65	30 80	1 75	69	1 01	
Driver .....	306	365	12	232	.....		1 50	.....	343 43	28 37	1 50	76	94	
Driver .....	306	365	12	203½	.....		1 75	1 50	337 83	28 15	1 66	66	93	
Driver .....	306	365	12	210	.....		1 75	1 50	328 08	27 34	1 56	69	96	
Driver .....	280	334	11	198½	.....		1 75	1 50	340 23	30 93	1 72	71	1 02	
Driver .....	254	304	10	180	.....		1 50	.....	269 98	27 00	1 50	71	89	
Stockman .....	306	365	12	223	.....		1 75	.....	390 24	32 52	1 75	76	1 07	
Stock-boy .....	99	121	4	46½	.....		1 00	.....	46 25	11 56	1 00	47	38	
Stock-boy .....	52	61	2	25	.....		1 00	.....	25 00	12 50	1 00	48	41	
Dumper .....	306	365	12	221½	.....		1 75	.....	389 61	32 47	1 75	73	1 07	
Dumper .....	306	365	12	205½	.....		1 75	.....	359 15	29 93	1 75	67	98	
Dumper .....	306	365	12	194½	.....		1 75	.....	339 91	28 33	1 75	63	93	
Car-piler .....	306	365	12	205½	.....		2 00	1 25	346 28	28 86	1 68	67	95	
Car-piler .....	280	334	11	189½	.....		1 75	.....	331 59	30 15	1 75	71	99	
Cager .....	280	335	11	163½	.....		2 00	1 50	303 64	27 60	1 86	58	91	
Cager .....	232	276	9	167½	.....		2 00	1 75	330 80	36 53	1 97	72	1 20	
Trapper .....	306	365	12	204½	.....		1 50	60	241 85	20 15	1 18	67	66	
Trapper .....	306	365	12	211½	.....		1 50	60	219 89	18 32	1 04	69	60	
Trapper .....	306	365	12	216½	.....		60	.....	129 20	10 77	60	71	35	
Trapper .....	306	365	12	208	.....		60	.....	124 80	10 40	60	68	34	
Trapper .....	306	365	12	195½	.....		60	.....	117 15	9 76	60	64	32	
Trapper .....	229	273	9	158	.....		60	.....	94 65	10 52	60	77	35	
Trapper .....	202	242	8	131½	.....		60	.....	79 05	9 88	60	65	33	
Trapper .....	177	212	7	119	.....		60	.....	71 40	10 20	60	67	34	
Trapper .....	177	212	7	106½	.....		60	.....	64 05	9 15	60	60	30	
Trapper .....	126	151	5	80½	.....		60	.....	48 45	9 69	60	64	32	
Sulphurman ....	99	121	4	56½	.....		1 75	.....	98 43	24 61	1 75	57	81	
Laborer .....	71	90	3	54½	.....		1 75	1 50	88 58	29 53	1 68	74	98	

## RECAPITULATION—Establishment XI.

## MACHINE OPERATIVES, PAID BY THE DAY.

OCCUPATIONS.	Number of men.	Working time.	Net earnings.	AVERAGES.			
		Days.		Net earnings per man per month.	Per cent. of full time actually at work.	Net earnings per man per day.	Daily subsistence fund per man.
Cutters .....	8	1,631½	\$3,669 09	\$39 03	68	\$2 25	\$1 28
Blasters .....	9	1,642½	3,656 30	39 74	69	2 22	1 30
Timbermen .....	10	1,856	3,702 51	36 30	68	1 99	1 15
Helpers .....	31	4,248¾	6,944 06	26 60	61	1 63	83
Loaders .....	109	12,414	21,966 58	28 27	59	1 77	88
	167	21,792½	\$39,938 54				

## OTHER EMPLOYÉS, PAID BY THE DAY OR MONTH.

Pit-boss .....	1	12 mos.	\$900 00	\$75 00	100	\$3 00	\$2 47
Engineer, chief .....	1	12 mos.	900 00	75 00	100	2 47	2 47
Engineers .....	2	24 mos.	1,440 00	60 00	100	2 00	2 00
Firemen .....	2	227	450 00	37 24	74	1 98	1 00
Blacksmith, chief .....	1	12 mos.	720 00	60 00	100	2 40	2 00
Blacksmiths .....	2	521¼	944 83	39 37	85	1 81	1 29
Carpenters .....	2	302	534 12	42 88	89	1 87	1 42
Watchmen .....	2	468	637 10	37 55	100	1 28	1 28
Dumpers .....	3	624	1,088 67	30 24	67	1 75	99
Cagers .....	2	331¼	634 44	32 07	65	1 91	1 05
Car-pilers .....	2	395¼	677 87	29 50	69	1 72	97
Roadman .....	1	290¼	580 30	48 36	95	2 00	1 59
Cartmen .....	3	285	494 22	27 86	66	1 73	91
Drivers .....	8	1,700	2,799 94	30 02	72	1 64	99
Stockman .....	1	223	390 24	32 52	76	1 75	1 07
Stock boys .....	2	71¼	71 25	12 00	47	1 00	39
Sulphurman .....	1	56¼	98 43	24 61	57	1 75	81
Laborer .....	1	54½	88 58	29 53	74	1 63	98
Trappers, boys .....	10	1,631½	1,190 59	11 88	67	73	39
	47	9,005¾	\$14,640 48				



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## PART II.

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I. FORECLOSURES OF MORTGAGES.

II. JUDGMENTS, JUDGMENT NOTES.

III. LAND VALUES IN ILLINOIS.

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## CHAPTER I.

## FORECLOSURES OF MORTGAGES.

The following statistics relating to foreclosures of mortgages consist merely of a statement of the number of cases in which foreclosure proceedings were consummated during the two calendar years 1880 and 1887. These years were chosen for the reason that a previous investigation has developed the number of real estate mortgages executed and recorded during the same periods. The foreclosures which were scheduled by the agents of the bureau included those in which proceedings were pending and those cases also which had been dismissed before the decree was issued; but in making up the totals which are presented in the following tables, only those were considered in which a decree had been granted and a sale ordered or made. It was believed that this class of cases only should be entered as constituting the experience of the year in the matter of foreclosures. As those cases which were concluded during the year were, in many cases, begun in previous years, some in remote years, those which were pending during the periods of investigation were considered as properly belonging to future periods. Differences of opinion may be held as to whether the number of people who have been brought into court during a given year, or those who have actually been dispossessed and whose property has been sold during the year, more truly represent existing conditions in that year. The figures given here represent the latter class, though foot-notes indicate the number of pending and dismissed cases which have been omitted from the tables.

The presentation of this subject is made in a series of small tables, one for the State at large, and one for each county in

the State. In each is given the number and amount of mortgages made, and the number, and amount of the mortgages foreclosed during the two years, 1880 and 1887. A separation is made and preserved between mortgages on lands and on lots, and both the number of acres and of lots, incumbered and sold, is given. Under foreclosures will be found the number and amount of the original mortgages, the character of the property incumbered, and the amount of the decrees rendered in each year and county.

It is not claimed that these figures are in any sense conclusive either as to the amount of debt in the several counties or the portion of it which is in default at any given time. On the other hand they are merely suggestive as to both. They possess, however, the official quality of being literal transcripts from the public records, and as such they afford a legitimate basis of opinion on a subject which has heretofore been a matter of mere conjecture.

## FORECLOSURE TABLES.

*Foreclosures of Mortgages in Illinois during the calendar years 1880 and 1887, compared with the real estate mortgages executed and recorded during the same years,—by counties and for the State.*

## THE STATE.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	24,248	\$30,512,566	2,059,666	.....	810	\$1,204,598	72,999	.....	\$1,471,787
Lots.....	17,557	22,097,917	.....	34,282	625	1,644,287	.....	1,519	1,085,451
Totals.....	41,805	\$52,610,483	2,059,666	34,282	*1,435	\$2,848,885	72,999	1,519	\$2,557,238

\* Not including 81 cases, dismissed, pending and incomplete, for \$195,734, on 1,796 acres and 875 lots.

1887.									
Lands.....	25,334	\$37,040,770	2,178,532	.....	1,223	\$1,892,535	113,598	.....	\$2,040,253
Lots.....	38,326	62,754,914	.....	65,066	855	1,196,202	.....	2,184	1,333,985
Totals.....	63,660	\$99,795,684	2,178,532	65,066	*2,078	\$3,088,737	113,598	2,184	\$3,374,238

\* Not including 165 cases, dismissed, pending and incomplete, for \$331,281, on 749 acres and 375 lots.



## ADAMS COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	348	\$455,908	29,212	.....	6	\$17,644	890	.....	\$13,599
Lots.....	228	248,511	.....	335	9	21,394	.....	17	25,663
Totals.....	576	\$704,414	29,212	335	15	\$39,038	890	17	\$39,262
1887.									
Lands.....	376	\$517,448	32,333	.....	6	\$7,900	322	.....	\$10,045
Lots.....	398	421,078	.....	571	11	29,375	.....	22	28,272
Totals.....	774	\$938,526	32,333	571	17	\$34,275	322	22	\$38,317

## ALEXANDER COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	27	\$10,437	2,340	.....	1	\$2,000	160	.....	\$3,364
Lots.....	64	65,450	.....	180	3	9,800	.....	9	10,717
Totals.....	91	\$75,887	2,340	180	4	\$11,800	160	9	\$14,081
1887.									
Lands.....	57	\$31,996	6,075	.....	5	\$1,755	328	.....	\$2,068
Lots.....	135	150,709	.....	457	9	7,623	.....	27	8,729
Totals.....	192	\$182,705	6,075	457	14	\$9,378	328	27	\$10,797

## BOND COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	237	\$243,921	20,572	.....	5	\$4,147	440	.....	\$6,457
Lots.....	56	31,275	.....	101	4	1,965	.....	7	1,614
Totals.....	293	\$275,196	20,572	101	9	\$6,112	440	7	\$8,071
1887.									
Lands.....	170	\$135,825	13,546	.....	19	\$19,007	1,456	.....	\$23,592
Lots.....	72	28,411	.....	120	15	7,895	.....	33	7,450
Totals.....	242	\$164,236	13,546	120	34	\$26,902	1,456	33	\$31,042

## BOONE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	123	\$180,358	10,111	.....	1	\$1,200	80	.....	\$1,516
Lots.....	56	27,140	.....	117	1	500	.....	2	968
Totals.....	179	\$207,498	10,111	117	2	\$1,700	80	2	\$2,484

1887.									
Lands.....	143	\$211,467	10,876	.....	5	\$12,702	400	.....	\$16,876
Lots.....	100	88,093	.....	159	*	.....	.....	.....	.....
Totals.....	243	\$299,560	10,876	159	5	\$12,702	400	.....	\$16,876

\* No foreclosures on lots.

## BROWN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	149	\$124,980	13,451	.....	5	\$1,974	360	.....	\$1,887
Lots.....	18	15,759	.....	42	*	.....	.....	.....	.....
Totals.....	167	\$140,739	13,451	42	5	\$1,974	360	.....	\$1,887

\* No foreclosures on lots.

1887.									
Lands.....	192	\$166,365	15,537	.....	.....	.....	.....	.....	.....
Lots.....	24	17,256	.....	41	.....	.....	.....	.....	.....
Totals.....	216	\$183,621	15,537	41	*	.....	.....	.....	.....

\* No foreclosures.

## BUREAU COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	444	\$821,775	44,455	.....	3	\$7,200	340	.....	\$11,626
Lots.....	111	47,715	.....	206	6	23,211	.....	9	8,513
Totals.....	555	\$869,490	44,455	206	9	\$30,411	340	9	\$20,144

1887.									
Lands.....	437	\$694,747	46,708	.....	17	\$67,868	1,758	.....	\$77,678
Lots.....	237	123,090	.....	351	9	4,737	.....	18	8,444
Totals.....	674	\$817,837	46,708	351	26	\$72,205	1,758	18	\$86,122

## CALHOUN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	85	\$71,510	11,610	.....	7	\$5,580	873	.....	\$6,323
Lots.....	13	4,725	.....	29	*	.....	.....	.....	.....
Totals.....	98	\$76,235	11,610	29	7	\$5,580	873	.....	\$6,323

\*No foreclosures on lots.

1887.									
Lands.....	86	\$63,469	10,385	.....	15	\$17,747	2,548	.....	\$18,865
Lots.....	5	1,178	.....	11	2	1,100	.....	9	1,516
Totals.....	91	\$64,647	10,385	11	17	\$18,847	2,548	9	\$20,381

## CARROLL COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	113	\$168,894	10,744	.....	2	\$4,800	240	.....	\$5,084
Lots.....	26	10,930	.....	41	*	.....	.....	.....	.....
Totals.....	139	\$179,824	10,744	41	2	\$4,800	240	.....	\$5,084

\*No foreclosures on lots.

1887.									
Lands.....	216	\$342,281	19,308	.....	12	\$26,677	1,379	.....	\$31,201
Lots.....	153	76,073	.....	237	3	1,207	.....	3	1,575
Totals.....	369	\$418,354	19,308	237	15	\$27,884	1,379	3	\$32,776

## CASS COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	110	\$186,232	16,316	.....	6	\$7,928	612	.....	\$10,388
Lots.....	85	38,488	.....	169	7	3,613	.....	10	3,890
Totals.....	195	\$224,720	16,316	169	13	\$11,541	612	10	\$14,278

1887.									
Lands.....	128	\$263,149	15,257	.....	7	\$11,772	512	.....	\$13,596
Lots.....	167	100,195	.....	304	4	2,393	.....	5	1,686
Totals.....	295	\$363,344	15,257	304	11	\$14,165	512	5	\$15,282

## CHAMPAIGN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	536	\$589,044	49,245	.....	*8	\$11,276	990	.....	\$13,116
Lots.....	226	129,445	.....	380	13	12,427	.....	34	15,199
Totals.....	762	\$718,489	49,245	380	21	\$23,703	990	34	\$28,315

\*Not including one case dismissed for want of equity, for \$1,000 on 80 acres.

1887.									
Lands.....	540	\$704,247	45,322	.....	12	\$12,866	1,024	.....	\$14,978
Lots.....	320	147,487	.....	553	7	4,978	.....	38	6,641
Totals.....	860	\$851,734	45,322	553	19	\$17,844	1,024	38	\$21,619

## CHRISTIAN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	340	\$459,831	31,394	.....	8	\$30,804	1,366	.....	\$45,467
Lots.....	88	42,454	.....	175	8	5,606	.....	15	8,421
Totals.....	428	\$502,282	31,394	175	16	\$36,410	1,366	15	\$53,888

1887.									
Lands.....	314	\$396,153	28,363	.....	8	\$13,621	1,041	.....	\$16,424
Lots.....	198	100,936	.....	360	10	5,457	.....	17	6,261
Totals.....	512	\$496,189	28,363	360	18	\$19,078	1,041	17	\$22,685

## CLARK COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	248	\$124,132	16,148	.....	*31	\$16,746	2,561	.....	\$20,082
Lots.....	70	27,323	.....	142	4	5,663	.....	6	6,387
Totals.....	318	\$151,455	16,148	142	35	\$22,409	2,561	6	\$26,469

\*Not including one case dismissed, for \$399 on 40 acres.

1887.									
Lands.....	334	\$136,945	24,725	.....	18	\$20,094	1,929	.....	\$24,603
Lots.....	100	42,888	.....	188	10	11,020	.....	21	11,281
Totals.....	434	\$179,833	24,725	188	28	\$31,114	1,929	21	\$35,884

## FORECLOSURES OF MORTGAGES.

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## CLAY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	136	\$68,769	11,176	.....	11	\$6,722	976	.....	\$6,778
Lots.....	29	16,262	.....	56	2	160	.....	2	1,318
Totals.....	165	\$85,031	11,176	56	13	\$6,882	976	2	\$8,096

1887.									
Lands.....	192	\$98,748	15,008	.....	8	\$4,577	719	.....	\$5,781
Lots.....	55	16,873	.....	98	3	2,265	.....	3	3,106
Totals.....	247	\$115,621	15,008	98	11	\$6,842	719	3	\$8,887

## CLINTON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	207	\$267,089	18,439	.....	5	\$2,241	330	.....	\$2,903
Lots.....	49	19,287	.....	76	3	2,271	.....	4	1,673
Totals.....	256	\$286,376	18,439	76	8	\$4,512	330	4	\$4,576

1887.									
Lands.....	130	\$238,647	19,434	.....	27	\$32,912	3,222	.....	\$35,641
Lots.....	26	18,487	.....	84	8	10,000	.....	130	10,618
Totals.....	206	\$257,134	19,434	84	35	\$42,912	3,222	130	\$46,259

## COLES COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lo's.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	242	\$229,977	13,822	.....	11	\$7,187	818	.....	\$9,597
Lots.....	151	76,949	.....	231	10	6,070	.....	18	6,552
Totals.....	373	\$306,926	13,822	231	21	\$13,257	818	18	\$16,149

1887.									
Lands.....	306	\$232,874	17,919	.....	9	\$8,792	666	.....	\$6,864
Lots.....	233	114,943	.....	447	12	7,256	.....	17	7,285
Totals.....	539	\$397,858	17,919	447	21	\$16,048	666	17	\$14,149

## STATISTICS OF LABOR.

## COOK COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	390	\$1,324,004	21,904	.....	20	\$123,640	1,031	.....	\$192,727
Lots.....	6,891	14,857,733	.....	12,237	134	1,154,378	.....	378	562,178
Totals.....	7,281	\$16,181,737	21,904	12,237	*154	\$1,278,018	1,031	378	\$754,905

\* Not including 40 cases, dismissed, pending and incomplete, for \$304,374, on 60 acres and 344 lots.

1887.									
Lands.....	646	\$5,050,650	31,447	.....	10	\$68,370	323	.....	\$86,778
Lots.....	20,013	49,329,342	.....	32,483	181	331,013	.....	327	360,649
Totals.....	20,659	\$54,379,992	31,447	32,483	*191	\$399,383	323	327	\$447,427

\* Not including 112 cases, dismissed, pending and incomplete, for \$304,374 on 60 acres and 344 lots.

## CRAWFORD COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	131	\$65,730	7,567	.....	8	\$7,810	729	.....	\$7,819
Lots.....	33	13,665	.....	70	6	3,686	.....	12	2,733
Totals.....	164	\$79,395	7,567	70	14	\$11,496	729	12	\$10,552

1887.									
Lands.....	176	\$90,212	10,729	.....	8	\$6,675	728	.....	\$5,929
Lots.....	69	25,345	.....	149	5	3,075	.....	10	1,747
Totals.....	245	\$115,557	10,729	149	13	\$9,750	728	10	\$7,676

## CUMBERLAND COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
* 1880.									
Lands.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lots.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

\* Records destroyed by fire.

1887.									
Lands.....	198	\$114,755	10,103	.....	14	\$6,202	761	.....	\$7,322
Lots.....	50	24,898	.....	77	4	1,706	.....	6	839
Totals.....	248	\$139,653	10,103	77	18	\$7,908	761	6	\$8,161

## I E KALB COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	256	\$454,491	21,719	.....	4	\$10,692	304	.....	\$11,275
Lots.....	143	80,580	.....	214	3	5,650	.....	6	9,264
Totals.....	399	\$535,071	24,719	214	7	\$16,342	304	6	\$20,539

1887.									
Lands.....	202	\$398,225	19,227	.....	9	\$27,088	805	.....	\$28,484
Lots.....	145	77,519	.....	238	10	9,189	.....	19	8,763
Totals.....	347	\$475,744	19,227	238	19	\$36,277	805	19	\$37,247

## DE WITT COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	164	\$212,341	14,811	.....	10	\$6,421	548	.....	\$3,453
Lots.....	80	32,598	.....	203	10	10,191	.....	37	10,422
Totals.....	244	\$244,939	14,811	203	20	\$16,612	548	37	\$18,875

1887.									
Lands.....	218	\$303,058	17,932	.....	4	\$3,197	395	.....	\$3,460
Lots.....	100	62,875	.....	212	9	6,008	.....	34	7,330
Totals.....	318	\$365,933	17,932	212	13	\$9,205	395	34	\$10,790

## DOUGLAS COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	289	\$301,581	25,167	.....	7	\$13,900	640	.....	\$11,976
Lots.....	70	31,430	.....	131	4	2,633	.....	8	2,932
Totals.....	359	\$333,011	25,167	131	11	\$16,533	640	8	\$14,908

1887.									
Lands.....	253	\$329,643	20,182	.....	10	\$10,920	1,010	.....	\$12,354
Lots.....	145	81,512	.....	274	10	11,057	.....	36	12,682
Totals.....	398	\$411,160	20,182	274	20	\$21,977	1,010	36	\$25,036

## DU PAGE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	150	\$292,354	9,779	.....	4	\$9,511	331	.....	\$12,526
Lots.....	89	64,985	.....	223	2	800	.....	4	1,156
Totals.....	239	\$357,289	9,779	223	6	\$10,311	331	4	\$13,682

1887.									
Lands.....	120	\$283,685	7,344	.....	7	\$27,500	395	.....	\$34,177
Lots.....	183	225,609	.....	522	2	700	.....	2	801
Totals.....	303	\$509,294	7,344	522	9	\$28,200	395	2	\$34,978

## EDGAR COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	242	\$265,197	19,053	.....	11	\$18,023	934	.....	\$25,666
Lots.....	111	75,845	.....	171	9	4,066	.....	21	5,522
Totals.....	353	\$341,042	19,053	171	20	\$22,089	934	21	\$31,188

1887.									
Lands.....	289	\$346,871	25,065	.....	18	\$19,376	1,129	.....	\$20,906
Lots.....	159	71,173	.....	312	8	3,076	.....	13	3,451
Totals.....	448	\$418,044	25,065	312	26	\$22,452	1,129	13	\$24,357

## EDWARDS COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	123	\$63,718	7,822	.....	3	\$1,089	52	.....	\$1,368
Lots.....	21	6,864	.....	33	*	.....	.....	.....	.....
Totals.....	144	\$70,582	7,822	33	3	\$1,089	52	.....	\$1,368

\*No foreclosures on lots.

1887.									
Lands.....	152	\$79,303	8,715	.....	6	\$27,670	457	.....	\$28,055
Lots.....	48	15,979	.....	73	3	4,500	.....	4	5,171
Totals.....	200	\$95,282	8,715	73	9	\$32,170	457	4	\$33,226



# FORECLOSURES OF MORTGAGES.

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## EFFINGHAM COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	205	\$127,657	16,418	.....	12	\$8,636	332	.....	\$0,824
Lots.....	49	25,623	.....	93	5	2,965	.....	8	2,192
Totals.....	254	\$153,280	16,418	93	17	\$11,621	332	8	\$12,016

1887.									
Lands.....	209	\$112,105	16,406	.....	6	\$2,931	551	.....	\$3,389
Lots.....	127	56,572	.....	197	14	8,422	.....	38	8,775
Totals.....	336	\$168,677	16,406	197	20	\$11,353	551	38	\$12,164

## FAYETTE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	317	\$188,863	24,352	.....	9	\$9,834	1,295	.....	\$9,508
Lots.....	46	16,992	.....	116	2	550	.....	3	662
Totals.....	363	\$205,855	24,352	116	11	\$10,384	1,295	3	\$10,170

1887.									
Lands.....	359	\$212,519	27,927	.....	28	\$30,790	3,440	.....	\$25,632
Lots.....	102	48,401	.....	238	7	1,937	.....	14	2,271
Totals.....	461	\$260,920	27,927	238	35	\$32,727	3,440	14	\$27,903

## FORD COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	196	\$251,800	22,658	.....	1	\$18,580	1,280	.....	\$24,564
Lots.....	40	14,732	.....	108	1	2,333	.....	16	1,438
Totals.....	236	\$266,532	22,658	108	2	\$20,913	1,280	16	\$26,002

1887.									
Lands.....	238	\$370,398	24,990	.....	2	\$3,000	42	.....	\$2,831
Lots.....	108	62,913	.....	205	*	.....	.....	.....	.....
Totals.....	346	\$432,711	24,990	205	2	\$3,000	42	.....	\$2,831

\* No foreclosures on lots.

## FRANKLIN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	177	\$84,417	13,181	.....	8	\$1,673	424	.....	\$1,839
Lots.....	26	7,702	.....	34	1	1,350	.....	1	1,349
Totals.....	203	\$92,119	13,181	34	9	\$3,023	424	1	\$3,218

1887.									
Lands.....	126	\$58,001	9,705	.....	24	\$10,668	1,570	.....	\$11,773
Lots.....	35	13,813	.....	46	1	500	.....	1	570
Totals.....	161	\$71,814	9,705	46	*25	\$11,168	1,570	1	\$12,343

\*Not including one case incomplete for \$200, property not stated.

## FULTON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	316	\$396,849	27,007	.....	10	\$10,262	918	.....	\$11,824
Lots.....	108	53,278	.....	233	8	25,130	.....	17	27,403
Totals.....	424	\$390,127	27,007	233	18	\$35,392	918	17	\$39,227

1887.									
Lands.....	533	\$622,649	46,308	.....	18	\$43,110	3,300	.....	\$44,443
Lots.....	297	158,306	.....	525	6	5,190	.....	7	7,259
Totals.....	830	\$790,955	46,308	525	24	\$48,300	3,300	7	\$51,702

## GALLATIN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	136	\$100,325	13,606	.....	5	\$2,516	293	.....	\$3,645
Lots.....	36	13,702	.....	61	4	1,340	.....	8	1,531
Totals.....	172	\$114,027	13,606	61	9	\$3,856	293	8	\$5,176

1887.									
Lands.....	163	\$131,008	15,667	.....	9	\$6,968	1,013	.....	\$8,075
Lots.....	45	25,414	.....	98	5	1,438	.....	8	1,853
Totals.....	208	\$159,422	15,667	98	14	\$8,406	1,013	8	\$9,928

## GREENE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	147	\$270,414	16,092	.....	11	\$11,438	845	.....	\$13,251
Lots.....	63	31,699	.....	91	8	3,320	.....	11	4,370
Totals.....	210	\$302,113	16,092	91	19	\$14,758	845	11	\$17,621

1887.									
Lands.....	139	\$229,644	26,212	.....	29	\$46,710	3,513	.....	\$41,547
Lots.....	99	56,418	.....	144	11	11,925	.....	27	11,507
Totals.....	238	\$286,062	26,212	144	40	\$58,635	3,513	27	\$53,054

## GRUNDY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	162	\$298,105	17,009	.....	2	\$3,204	85	.....	\$4,939
Lots.....	82	43,193	.....	758	4	2,490	.....	5	3,841
Totals.....	244	\$341,398	17,009	758	6	\$5,694	85	5	\$8,780

1887.									
Lands.....	148	\$325,299	16,322	.....	3	\$6,255	369	.....	\$5,358
Lots.....	91	46,770	.....	171	5	1,719	.....	7	1,839
Totals.....	239	\$372,069	16,322	171	8	\$7,965	369	7	\$7,197

## HAMILTON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	219	\$90,854	15,181	.....	10	\$5,404	1,000	.....	\$4,862
Lots.....	18	5,513	.....	38	1	178	.....	3	213
Totals.....	237	\$96,367	15,181	38	11	\$5,582	1,000	3	\$5,075

1887.									
Lands.....	282	\$79,534	18,722	.....	14	\$8,610	1,420	.....	\$10,305
Lots.....	32	14,823	.....	50	1	362	.....	2	390
Totals.....	314	\$94,357	18,722	50	15	\$8,972	1,420	2	\$10,695

## HANCOCK COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	365	\$379,957	30,106	.....	5	\$4,116	426	.....	\$4,157
Lots.....	102	38,334	.....	381	1	151	.....	1	169
Totals.....	467	\$418,291	30,106	381	6	\$4,247	426	1	\$4,326

1887.									
Lands.....	428	\$505,054	33,413	.....	.....	.....	.....	.....	.....
Lots.....	187	89,899	.....	364	.....	.....	.....	.....	.....
Totals.....	615	\$594,953	33,413	364	*	.....	.....	.....	.....

\* No foreclosures.

## HARDIN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
*1880.									
Lands.....	.....	.....	.....	.....	6	\$51,522	415	.....	\$28,156
Lots.....	.....	.....	.....	.....	1	239	.....	1	316
Totals.....	.....	.....	.....	.....	7	\$51,841	415	1	\$28,472

\* Records destroyed by fire.

1887.									
Lands.....	47	\$10,377	3,282	.....	6	\$2,260	456	.....	\$2,166
Lots.....	10	2,042	.....	15	1	58	.....	2	100
Totals.....	57	\$12,419	3,282	15	7	\$2,318	456	2	\$2,266

## HENDERSON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	112	\$157,107	11,901	.....	4	\$2,502	320	.....	\$3,333
Lots.....	18	7,229	.....	39	2	3,900	.....	3	4,697
Totals.....	130	\$164,336	11,901	39	6	\$5,802	320	3	\$8,030
1887.									
Lands.....	96	\$220,920	13,432	.....	7	\$11,324	1,964	.....	\$13,751
Lots.....	15	5,190	.....	30	1	4,294	.....	1	4,937
Totals.....	111	\$226,110	13,432	30	8	\$15,618	1,964	1	\$18,688

## HENRY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	376	\$654,968	34,286	.....	5	\$7,031	970	.....	\$7,807
Lots.....	179	107,259	.....	312	1	800	.....	1	973
Totals.....	555	\$762,217	34,286	312	6	\$7,831	970	1	\$8,780
1887.									
Lands.....	310	\$593,534	33,356	.....	1	\$616	137	.....	\$751
Lots.....	206	127,601	.....	338	2	2,662	.....	3	3,069
Totals.....	516	\$721,135	33,356	338	3	\$3,278	137	3	\$3,820

## IROQUOIS COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	532	\$627,528	51,218	.....	7	\$8,851	680	.....	\$7,456
Lots.....	94	42,454	.....	174	1	300	.....	2	615
Totals.....	626	\$669,982	51,218	174	8	\$9,151	680	2	\$8,071
1887.									
Lands.....	572	\$906,971	53,307	.....	3	\$6,700	320	.....	\$10,469
Lots.....	165	74,617	.....	359	4	2,914	.....	20	3,058
Totals.....	737	\$981,588	53,307	359	*7	\$9,614	320	20	\$13,527

\*Not including one case, incomplete, for \$300, on one lot.

## JACKSON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	228	\$199,796	18,699	.....	6	\$4,670	521	.....	\$5,625
Lots.....	115	51,075	.....	189	3	2,141	.....	4	1,745
Totals.....	343	\$250,871	18,699	189	9	\$6,811	521	4	\$7,370
1887.									
Lands.....	260	\$144,287	19,748	.....	17	\$16,843	1,352	.....	\$16,911
Lots.....	138	58,555	.....	241	4	5,967	.....	6	6,028
Totals.....	398	\$202,842	19,748	241	21	\$22,810	1,352	6	\$22,939

## JASPER COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	213	\$101,267	17,991	.....	25	\$18,119	2,188	.....	\$17,209
Lots.....	23	9,060	.....	29	2	430	.....	3	586
Totals.....	236	\$110,327	17,991	29	27	\$18,549	2,188	3	\$17,795
1887.									
Lands.....	165	\$64,256	12,006	.....	19	\$11,747	1,417	.....	\$13,635
Lots.....	28	8,432	.....	37	*11	4,396	.....	13	5,128
Totals.....	193	\$72,688	12,006	37	30	\$16,143	1,417	13	\$18,763

\* Not including one case dismissed, for \$522, on 2 lots.

## JEFFERSON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	232	\$134,675	17,636	.....	9	\$2,707	406	.....	\$3,110
Lots.....	43	19,542	.....	57	3	600	.....	5	763
Totals.....	275	\$154,217	17,636	57	*12	\$3,307	406	5	\$3,873
1887.									
Lands.....	240	\$98,374	16,442	.....	44	\$37,724	4,642	.....	\$42,156
Lots.....	67	24,877	.....	102	7	6,354	.....	15	7,317
Totals.....	307	\$123,251	16,442	102	*51	\$44,078	4,642	15	\$49,473

\* Not including 7 cases in which nothing appears of record except court costs.

## JERSEY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	196	\$221,993	16,684	.....	19	\$37,366	2,518	.....	\$47,734
Lots.....	71	49,905	.....	172	3	2,752	.....	14	3,373
Totals.....	267	\$271,898	16,684	172	22	\$40,118	2,518	14	\$51,107
1887.									
Lands.....	151	\$244,475	18,254	.....	29	\$46,919	3,533	.....	\$55,004
Lots.....	84	46,041	.....	158	9	5,927	.....	25	7,798
Totals.....	235	\$290,516	18,254	158	*38	\$52,846	3,533	25	\$62,802

\*Not including 2 cases in which there are no files.

## JO DAVIESS COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	295	\$340,156	26,912	.....	3	\$7,784	502	.....	\$4,892
Lots.....	69	36,195	.....	157	2	1,095	.....	8	1,242
Totals.....	364	\$376,351	26,912	157	5	\$8,879	502	8	\$6,134
1887.									
Lands.....	240	\$305,448	23,713	.....	7	\$14,502	760	.....	\$16,850
Lots.....	110	92,008	.....	256	3	900	.....	7	1,003
Totals.,.....	350	\$397,456	23,713	256	10	\$15,402	760	7	\$17,853

## JOHNSON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	79	\$19,190	5,552	.....	*7	\$2,087	525	.....	\$2,120
Lots.....	14	3,586	.....	19	1	60	.....	1	70
Totals.....	93	\$22,776	5,552	19	8	\$2,147	525	1	\$2,190

\* Not including 5 cases dismissed, for \$1,219 on 313 acres.

1887.									
Lands.....	149	\$47,614	12,985	.....	15	\$5,026	1,148	.....	\$5,450
Lots.....	28	10,642	.....	37					
Totals.....	177	\$58,256	12,985	37	*15	\$5,026	1,148	.....	\$5,450

\* Not including 2 cases, incomplete, for \$600 on 80 acres, and \$128 on one lot.

## KANE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	232	\$403,379	15,467	.....	3	\$17,850	283	.....	\$17,365
Lots.....	358	261,227	.....	615	3	2,700	.....	12	3,109
Totals.....	590	\$664,606	15,467	615	6	\$20,550	283	12	\$20,474
1887.									
Lands.....	259	\$482,777	19,158	.....	2	\$3,300	84	.....	\$3,287
Lots.....	1,018	833,196	.....	1,481	10	6,725	.....	14	8,664
Totals.....	1,277	\$1,315,973	19,158	1,481	*12	\$10,025	84	14	\$11,951

\* Not including 4 cases, incomplete, for \$400 on 20 acres, and \$950 on 4 lots.

## KANKAKEE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	270	\$337,172	26,622	.....	2	\$1,742	307	.....	\$1,973
Lots.....	107	76,406	.....	251	1	400	.....	4	511
Totals.....	377	\$413,578	26,622	251	3	\$2,142	307	4	\$2,484

1887.									
Lands.....	264	\$440,889	32,324	.....	2	\$2,600	200	.....	\$3,108
Lots.....	223	132,741	.....	384	2	2,700	.....	6	3,358
Totals.....	487	\$573,630	32,324	384	4	\$5,300	200	6	\$6,466

## KENDALL COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	80	\$188,113	8,270	.....	.....	.....	.....	.....	.....
Lots.....	14	8,257	.....	25	.....	.....	.....	.....	.....
Totals.....	94	\$196,370	8,270	35	*	.....	.....	.....	.....

\*No foreclosures.

1887.									
Lands.....	124	\$279,929	13,804	.....	2	\$7,700	240	.....	\$10,545
Lots.....	50	21,867	.....	91	1	600	.....	1	590
Totals.....	174	\$301,796	13,804	91	3	\$8,300	240	1	\$11,135

## KNOX COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	350	\$585,967	32,314	.....	7	\$15,076	634	.....	\$16,919
Lots.....	235	146,099	.....	445	7	10,916	.....	18	9,738
Totals.....	585	\$732,066	32,314	445	14	\$25,992	634	18	\$26,657

1887.									
Lands.....	354	\$669,250	38,832	.....	14	\$27,343	1,389	.....	\$28,112
Lots.....	374	289,846	.....	711	9	11,971	.....	23	14,358
Totals.....	728	\$959,096	38,832	711	23	\$39,314	1,389	23	\$42,470



## LAKE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	210	\$241,792	15,242	.....	1	\$2,500	100	.....	\$9,198
Lots.....	86	66,435	.....	125	3	7,135	.....	6	3,614
Totals.....	296	\$318,227	15,242	125	4	\$9,635	100	6	\$12,812
1887.									
Lands.....	245	\$329,486	14,398	.....	*3	\$5,300	218	.....	\$6,088
Lots.....	172	152,485	.....	269	4	1,255	.....	7	1,536
Totals.....	417	\$481,971	14,398	269	7	\$6,555	218	7	\$7,624

\* Not including one case, pending, for \$1,000, on 40 acres.

## LA SALLE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	423	\$773,399	40,480	.....	8	\$21,222	697	.....	\$24,694
Lots.....	389	245,548	.....	722	23	15,770	.....	42	26,967
Totals.....	812	\$1,018,947	40,480	722	31	\$36,992	697	42	\$51,661
1887.									
Lands.....	460	\$985,954	46,557	.....	29	\$73,535	2,660	.....	\$93,058
Lots.....	760	489,241	.....	1,292	32	94,179	.....	145	90,999
Totals.....	1,220	\$1,475,195	46,557	1,292	61	\$167,714	2,660	145	\$184,057

## LAWRENCE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	98	\$33,686	5,350	.....	12	\$7,146	803	.....	\$7,288
Lots.....	17	7,477	.....	28	1	202	.....	2	217
Totals.....	115	\$41,163	5,350	28	13	\$7,348	803	2	\$7,505
1887.									
Lands.....	141	\$77,230	10,268	.....	15	\$8,603	988	.....	\$10,372
Lots.....	76	29,808	.....	108	3	2,540	.....	13	2,152
Totals.....	217	\$107,038	10,268	108	18	\$11,143	988	13	\$12,524

## STATISTICS OF LABOR.

## LEE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	304	\$520,822	29,370	.....	9	\$19,999	1,662	.....	\$30,796
Lots.....	105	120,084	.....	133	.....	.....	.....	.....	.....
Totals.....	409	\$640,906	29,370	133	9	\$19,999	1,662	.....	\$30,796

\*No foreclosures on lots.

1887.									
Lands.....	265	\$510,032	28,287	.....	21	\$46,682	2,417	.....	\$54,488
Lots.....	151	90,083	.....	176	8	9,329	.....	16	10,768
Totals.....	416	\$600,115	28,287	176	29	\$56,011	2,417	16	\$65,256

## LIVINGSTON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	406	\$555,465	38,102	.....	6	\$7,650	444	.....	\$10,284
Lots.....	202	51,618	.....	274	5	2,925	.....	12	3,711
Totals.....	608	\$607,083	38,102	274	11	\$10,575	444	12	\$13,945

1887.									
Lands.....	609	\$988,474	55,496	.....	1	\$2,000	80	.....	\$4,148
Lots.....	156	112,898	.....	315	4	4,396	.....	7	5,020
Totals.....	765	\$1,101,372	55,496	315	5	\$6,396	80	7	\$9,168

## LOGAN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	207	\$376,047	25,585	.....	10	\$11,827	846	.....	\$15,354
Lots.....	95	60,060	.....	295	11	11,226	.....	31	11,620
Totals.....	302	\$436,107	25,585	295	21	\$23,053	846	31	\$26,974

1887.									
Lands.....	184	\$424,220	21,181	.....	11	\$16,622	896	.....	\$27,135
Lots.....	284	127,088	.....	741	6	18,816	.....	48	8,333

## MACON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	269	\$366,263	21,355	.....	*10	\$15,019	769	.....	\$19,090
Lots.....	237	135,787	.....	478	10	9,372	.....	38	14,419
Totals.....	506	\$502,050	21,355	478	20	\$24,391	769	38	\$33,509

\* Not including two cases settled, for \$1,136 on 51 acres.

1887.									
Lands.....	286	\$452,432	24,274	.....	8	\$9,370	651	.....	\$7,103
Lots.....	596	414,878	.....	981	*6	11,140	.....	13	11,715
Totals.....	882	\$867,310	24,274	981	14	\$20,510	651	13	\$18,818

\* Not including two cases dismissed and one pending, for \$755 on 8 lots.

## MACOUPIN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	395	\$477,139	29,139	.....	6	\$7,893	565	.....	\$20,546
Lots.....	130	101,739	.....	278	6	13,646	.....	13	2,129
Totals.....	525	\$578,878	29,139	278	12	\$21,039	565	13	\$22,675

1887.									
Lands.....	315	\$694,170	24,833	.....	24	\$31,574	1,805	.....	\$37,173
Lots.....	161	81,464	.....	286	12	12,301	.....	14	13,333
Totals.....	476	\$475,504	24,833	286	36	\$33,875	1,805	14	\$50,506

## MADISON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	400	\$676,512	28,080	.....	4	\$5,678	427	.....	\$9,289
Lots.....	200	107,253	.....	468	6	6,133	.....	18	4,134
Totals.....	600	\$783,765	28,080	468	10	\$11,811	427	18	\$13,423

1887.									
Lands.....	363	\$597,954	30,017	.....	36	\$91,847	4,300	.....	\$96,571
Lots.....	335	318,881	.....	669	16	53,220	.....	92	73,116
Totals.....	698	\$916,835	30,017	669	*52	\$145,067	4,300	92	\$169,687

\* Two cases dismissed; for which there are no files.

## MARION COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	269	\$202,801	22,973	.....	17	\$16,250	1,126	.....	\$15,957
Lots.....	123	54,988	.....	239	1	100	.....	2	112
Totals .....	392	\$257,899	22,973	239	18	\$16,350	1,126	2	\$16,069
1887.									
Lands.....	171	\$94,771	11,477	.....	19	\$15,358	1,315	.....	\$15,433
Lots.....	158	85,706	.....	293	9	11,692	.....	51	13,066
Totals .....	329	\$180,477	11,477	293	*28	\$27,050	1,315	51	\$28,489

\*Not including 2 cases, \$500 each, no files, and one case with no record but court costs.

## MARSHALL COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	148	\$249,606	14,684	.....	3	\$1,515	140	.....	\$1,429
Lots.....	46	27,470	.....	107	4	2,306	.....	8	2,971
Totals .....	194	\$277,076	14,684	107	7	\$3,821	140	8	\$4,400
1887.									
Lands.....	129	\$265,121	14,436	.....	2	\$2,236	50	.....	\$2,450
Lots.....	53	30,830	.....	81	3	146	.....	4	180
Totals .....	182	\$295,951	14,436	81	5	\$2,382	50	4	\$2,630

## MASON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	133	\$193,203	15,642	.....	*	.....	.....	.....	.....
Lots.....	55	22,779	.....	118	.....	.....	.....	.....	.....
Totals .....	188	\$215,982	15,642	118	.....	.....	.....	.....	.....

\* No foreclosures.

1887.									
Lands.....	138	\$216,581	18,693	.....	2	\$1,620	80	.....	\$2,002
Lots.....	100	48,469	.....	204	*	.....	.....	.....	.....
Totals .....	238	\$265,050	18,693	204	2	\$1,620	80	.....	\$2,002

\* No foreclosures on lots.

## MASSAC COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	102	\$56,973	9,567	.....	*7	\$1,269	310	.....	\$1,348
Lots.....	36	20,553	.....	96	2	967	.....	6	1,329
Totals.....	138	\$77,526	9,567	96	9	\$2,236	310	6	\$2,677

\* Not including 3 cases, dismissed, for \$1,015 on 309 acres.

1887.									
Lands.....	111	\$39,088	8,056	.....	10	\$3,928	733	.....	\$4,421
Lots.....	60	54,944	.....	164	4	2,973	.....	23	2,963
Totals.....	171	\$74,032	8,056	164	*14	\$6,901	733	23	\$7,384

\* Not including 5 cases, dismissed, for \$405 on 110 acres, and \$500 on 4 lots.

## MC DONOUGH COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	269	\$338,666	21,122	.....	2	\$4,500	131	.....	\$4,541
Lots.....	106	53,904	.....	272	4	2,014	.....	8	2,585
Totals.....	375	\$392,570	21,122	272	6	\$6,514	131	8	\$7,126

1887.									
Lands.....	288	\$350,502	22,825	.....	1	\$2,500	80	.....	\$3,248
Lots.....	159	66,820	.....	375	2	900	.....	2	996
Totals.....	447	\$417,322	22,825	375	3	\$3,400	80	2	\$4,243

## MC HENRY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	290	\$486,921	27,762	.....	*7	\$12,459	446	.....	\$18,887
Lots.....	94	49,597	.....	192	4	1,300	.....	4	1,321
Totals.....	384	\$536,518	27,762	192	11	13,759	.....	4	\$20,208

\* Not including 2 cases, pending, for \$2,625 on 120 acres.

1887.									
Lands.....	260	\$463,000	27,683	.....	7	\$14,924	573	.....	\$19,492
Lots.....	128	79,119	.....	202	7	4,025	.....	17	4,746
Totals.....	388	\$542,119	27,683	202	*14	\$18,949	573	17	\$24,238

\* Not including 2 cases, pending, for \$500 on 80 acres, and \$3,100 on 2 lots.

## MC LEAN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1890.									
Lands.....	505	\$716,056	52,648	.....	9	\$19,564	922	.....	\$15,171
Lots.....	373	257,046	.....	633	20	17,397	.....	49	17,616
Totals.....	878	\$973,102	52,648	633	29	\$36,961	922	49	\$32,787
1887.									
Lands.....	403	\$762,091	40,763	.....	6	\$5,867	570	.....	\$7,142
Lots.....	641	566,520	.....	982	18	19,031	.....	196	15,621
Totals.....	1,044	\$1,328,611	40,763	982	24	\$24,898	570	196	\$22,763

## MENARD COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1890.									
Lands.....	145	\$181,508	11,118	.....	2	\$1,830	220	.....	\$2,513
Lots.....	77	40,029	.....	210	5	7,921	.....	9	7,218
Totals.....	222	\$221,537	11,118	210	7	\$9,251	220	9	\$9,731
1887.									
Lands.....	150	\$246,807	12,923	.....	5	\$5,160	274	.....	\$4,944
Lots.....	92	75,313	.....	207	3	2,900	.....	3	3,372
Totals.....	242	\$322,120	12,923	207	8	\$8,060	274	3	\$8,316

## MERCER COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1890.									
Lands.....	196	\$301,182	19,681	.....	5	\$9,729	278	.....	\$5,075
Lots.....	43	19,502	.....	366	3	4,000	.....	21	3,900
Totals.....	239	\$320,684	19,681	366	8	\$13,729	278	21	\$8,975
1887.									
Lands.....	199	\$326,474	20,665	.....	7	\$18,929	1,388	.....	\$17,128
Lots.....	80	45,670	.....	256	2	225	.....	2	2,619
Totals.....	279	\$372,144	20,665	256	9	\$19,154	1,388	2	\$19,747

## MONROE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	153	\$215,463	16,841	.....	15	\$14,963	1,150	.....	\$18,881
Lots.....	59	42,313	.....	145	4	1,145	.....	8	1,454
Totals.....	212	\$257,776	16,841	145	19	\$16,108	1,150	8	\$20,335

1887.									
Lands.....	132	\$198,237	18,220	.....	9	\$14,053	1,185	.....	\$15,765
Lots.....	41	27,600	.....	81	7	3,750	.....	28	3,312
Totals.....	173	\$225,837	18,220	81	16	\$17,803	1,185	28	\$19,077

## MONTGOMERY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	363	\$469,927	31,536	.....	7	\$6,340	1,051	.....	\$8,173
Lots.....	111	55,090	.....	306	7	4,720	.....	22	6,516
Totals.....	474	\$525,017	31,536	306	*14	\$11,060	1,051	22	\$14,682

\* Not including 3 cases for which there are no files.

1887.									
Lands.....	251	\$287,196	22,330	.....	21	\$17,221	1,725	.....	\$16,763
Lots.....	249	137,452	.....	492	11	15,480	.....	22	14,162
Totals.....	500	\$424,588	22,330	492	*32	\$30,701	1,725	22	\$32,925

\* Not including 2 cases for which there are no files.

## MORGAN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	265	\$379,587	18,212	.....	20	\$43,179	1,393	.....	\$58,333
Lots.....	188	183,695	.....	327	16	23,745	.....	26	27,019
Totals.....	453	\$563,282	18,212	327	36	\$66,924	1,393	26	\$85,352

1887.									
Lands.....	223	\$419,871	17,961	.....	2	\$1,900	96	.....	\$2,291
Lots.....	272	233,422	.....	388	8	6,601	.....	14	7,685
Totals.....	495	\$653,293	17,961	388	10	\$8,591	96	14	\$9,976

## MOULTRIE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	170	\$166,090	11,545	.....	3	\$3,500	318	.....	\$4,560
Lots.....	27	8,733	.....	57	3	7,888	.....	4	10,924
Totals.....	197	\$174,753	11,545	87	6	\$11,388	318	4	\$15,484

1887.									
Lands.....	286	\$264,412	20,870	.....	3	\$2,444	245	.....	\$2,209
Lots.....	56	33,390	.....	155	1	120	.....	3	128
Totals.....	342	\$296,802	20,870	155	4	\$2,564	245	3	\$2,337

## OGLE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	331	\$568,732	27,336	.....	11	\$18,614	950	.....	\$20,213
Lots.....	110	60,988	.....	387	5	3,903	.....	11	3,738
Totals.....	441	\$629,770	29,336	387	16	\$22,517	950	11	\$23,951

1887.									
Lands.....	290	\$545,187	25,730	.....	9	\$48,735	1,127	.....	\$29,604
Lots.....	84	46,079	.....	84	8	16,475	.....	12	18,247
Totals.....	374	\$591,266	25,730	84	*17	\$65,210	1,127	12	\$47,851

\* Not including 2 cases for which there are no files.

## PEORIA COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	351	\$468,026	30,372	.....	3	\$1,276	120	.....	\$1,047
Lots.....	571	583,551	.....	1,112	2	235	.....	2	510
Totals.....	922	\$1,071,577	30,372	1,112	5	\$1,511	120	2	\$1,357

1887.									
Lands.....	383	\$810,671	35,018	.....	2	\$2,700	80	.....	\$3,273
Lots.....	1,058	1,196,222	.....	1,661	14	14,219	.....	26	17,275
Totals.....	1,441	\$2,006,893	35,018	1,661	16	\$16,919	80	26	\$20,548



## PERRY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1890.									
Lands.....	244	\$132,888	17,537	.....	6	\$5,245	751	.....	\$5,594
Lots.....	48	27,950	.....	82	1	160	.....	1	80
Totals.....	292	\$160,838	17,537	82	7	\$5,405	751	1	\$5,674

1887.									
Lands.....	174	\$93,750	13,735	.....	27	\$15,840	1,683	.....	\$19,867
Lots.....	78	36,825	.....	133	1	170	.....	1	208
Totals.....	252	\$130,575	13,735	133	28	\$16,010	1,683	1	\$20,075

\* One case withdrawn, for which there are no files.

## PIATT COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	216	\$276,874	17,463	.....	11	\$18,516	1,049	.....	\$24,987
Lots.....	72	21,956	.....	174	10	5,956	.....	20	5,741
Totals.....	288	\$298,830	17,463	174	21	\$24,472	1,049	20	\$30,728

1887.									
Lands.....	248	\$326,194	23,128	.....	4	\$3,368	242	.....	\$3,696
Lots.....	124	59,098	.....	264	3	295	.....	6	298
Totals.....	372	\$385,292	23,128	264	7	\$3,663	242	6	\$3,999

## PIKE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	398	\$498,187	34,619	.....	5	\$8,474	246	.....	\$9,360
Lots.....	141	82,798	.....	375	2	600	.....	2	551
Totals.....	539	\$580,985	34,619	375	7	\$9,074	246	2	\$9,911

1887.									
Lands.....	294	\$325,485	25,027	.....	21	\$36,879	2,165	.....	\$44,324
Lots.....	107	34,742	.....	221	1	716	.....	1	817
Totals.....	401	\$360,227	25,027	221	22	\$37,595	2,165	1	\$45,141

## POPE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	63	\$15,011	4,728	.....	11	\$20,635	1,205	.....	\$15,193
Lots.....	6	1,927	.....	9	2	500	.....	3	819
Totals.....	69	\$16,938	4,728	9	13	\$21,135	1,205	3	\$16,012

1887.									
Lands.....	141	\$39,990	11,867	.....	12	\$6,448	1,714	.....	\$5,314
Lots.....	13	2,921	.....	15	3	1,325	.....	3	1,523
Totals.....	154	\$42,911	11,867	15	15	\$7,773	1,714	3	\$6,837

## PULASKI COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	37	\$12,632	2,348	.....	10	\$4,357	964	.....	\$6,818
Lots.....	9	1,749	.....	14	.....	.....	.....	.....	.....
Totals.....	46	\$14,381	2,348	14	*10	\$4,357	964	.....	\$6,818

\* Not including 6 cases, dismissed, for \$3,594 on 220 acres and 5 lots.

1887.									
Lands.....	76	\$34,273	4,617	.....	8	\$2,274	677	.....	\$3,141
Lots.....	14	6,947	.....	25	1	61	.....	1	70
Totals.....	90	\$41,220	4,617	25	*9	\$2,335	677	1	\$3,211

\* Not including 4 cases, dismissed, for \$1,146, on 179 acres and 2 lots.

## PUTNAM COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	61	\$76,739	6,598	.....	*	.....	.....	.....	.....
Lots.....	14	3,610	.....	48	2	\$750	.....	2	\$629
Totals.....	75	\$80,349	6,598	48	2	\$750	.....	2	\$629

\* No foreclosures on acres.

1887.									
Lands.....	74	\$130,425	7,314	.....	*	.....	.....	.....	.....
Lots.....	18	5,840	.....	36	3	\$1,107	.....	6	\$1,574
Totals.....	92	\$136,265	7,314	36	3	\$1,107	.....	6	\$1,574

\* No foreclosures on acres.

## RANDOLPH COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	275	\$294,120	25,278	.....	21	\$11,316	2,370	.....	\$80,734
Lots .....	84	66,052	.....	199	8	12,802	.....	49	11,463
Totals.....	359	\$360,172	23,278	199	29	\$24,118	2,370	49	\$42,197

1887.									
Lands.....	191	\$167,054	14,990	.....	31	\$39,680	3,075	.....	\$50,029
Lots .....	74	35,604	.....	141	3	2,300	.....	6	3,239
Totals.....	265	\$202,658	14,990	141	*34	\$41,980	3,075	6	\$53,268

\*Not including one case for which there are no files.

## RICHLAND COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	149	\$69,893	8,362	.....	17	\$14,863	1,381	.....	\$17,491
Lots .....	61	26,618	.....	95	5	6,911	.....	11	8,386
Totals.....	210	\$96,511	8,362	95	22	\$21,774	1,381	11	\$25,877

1887.									
Lands.....	178	\$82,549	11,222	.....	13	\$14,807	1,032	.....	\$10,329
Lots .....	104	61,027	.....	198	3	800	.....	5	955
Totals.....	282	\$143,576	11,222	198	16	\$15,607	1,032	5	\$11,284

## ROCK ISLAND COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	234	\$377,109	19,864	.....	6	\$20,466	596	.....	\$23,363
Lots .....	357	267,215	.....	574	10	9,809	.....	14	12,364
Totals.....	591	\$644,324	19,864	574	16	\$30,275	596	14	\$35,727

1887.									
Lands.....	222	\$336,230	19,923	.....	13	\$11,651	695	.....	\$14,268
Lots .....	490	419,088	.....	640	15	16,965	.....	22	21,483
Totals.....	652	\$755,318	19,923	640	28	\$28,616	695	22	\$35,751

## SALINE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	128	\$37,623	8,296	.....	7	\$11,342	815	.....	\$14,600
Lots.....	27	12,579	.....	45	2	184	.....	2	206
Totals.....	155	\$50,202	8,296	45	*9	\$11,526	815	2	\$14,806

\*Not including one case dismissed, for \$759 on 160 acres.

1887.									
Lands.....	224	\$71,527	16,247	.....	11	\$3,613	960	.....	\$4,489
Lots.....	38	12,702	.....	56	2	495	.....	2	600
Totals.....	262	\$84,229	16,247	56	13	\$4,048	960	2	\$5,089

## SANGAMON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	304	\$641,315	26,984	.....	8	\$12,000	557	.....	\$14,541
Lots.....	395	426,636	.....	631	13	18,654	.....	37	23,227
Totals.....	669	\$1,068,151	26,984	631	21	\$30,654	557	37	\$37,768

1887.									
Lands.....	398	\$806,170	30,909	.....	6	\$7,433	377	.....	\$8,786
Lots.....	746	617,493	.....	1,075	9	5,108	.....	15	5,252
Totals.....	1,144	\$1,458,663	30,909	1,075	15	\$12,541	377	15	\$14,038

## SCHUYLER COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	221	\$155,578	20,172	.....	.....	.....	.....	.....	.....
Lots.....	33	15,532	.....	79	.....	.....	.....	.....	.....
Totals.....	254	\$171,110	20,172	79	*	.....	.....	.....	.....

\* No foreclosures.

1887.									
Lands.....	232	\$232,536	25,272	.....	7	\$8,795	900	.....	\$9,482
Lots.....	60	34,205	.....	113	1	150	.....	2	127
Totals.....	292	\$266,739	25,272	113	8	\$8,945	900	2	\$9,609

## SCOTT COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	49	\$85,104	4,037	.....					
Lots.....	13	5,770	.....	18					
Totals.....	62	\$90,874	4,037	18	*				

\* No foreclosures.

1887.									
Lands.....	89	\$136,214	8,504	.....					
Lots.....	44	22,126	.....	116					
Totals.....	133	\$158,340	8,504	116	*				

\* No foreclosures.

## SHELBY COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	271	\$220,304	20,683	.....	9	\$12,548	750	.....	\$15,805
Lots.....	85	41,012	.....	116	2	627	.....	4	211
Totals.....	356	\$261,316	20,683	146	*11	\$13,175	750	4	\$16,016

\* Not including 5 cases, for which there are no files.

1887.									
Lands.....	418	\$317,006	29,246	.....	16	\$14,586	1,064	.....	\$18,290
Lots.....	298	134,922	.....	499	13	7,227	.....	30	5,681
Totals.....	716	\$451,928	29,246	499	29	\$21,813	1,064	30	\$23,971

## STARK COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	173	\$330,590	15,763	.....	5	\$5,517	222	.....	\$6,993
Lots.....	32	15,317	.....	64	3	1,888	.....	7	1,323
Totals.....	205	\$348,907	15,763	64	8	\$7,405	222	7	\$8,321

1887.									
Lands.....	128	\$258,109	11,966	.....	1	\$2,500	80	.....	\$3,034
Lots.....	39	16,312	.....	92	1	600	.....	1	737
Totals.....	167	\$274,421	11,966	92	2	\$3,100	80	1	\$3,771

## ST. CLAIR COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	197	\$379,008	15,572	.....	9	\$19,866	899	.....	\$22,089
Lots.....	272	257,844	.....	695	23	17,152	.....	60	21,530
Totals.....	469	\$636,852	15,572	695	*32	\$37,018	899	60	\$43,419

\* Not including one case for which there are no files.

1887.									
Lands.....	259	\$462,989	18,704	.....	38	\$233,331	3,649	.....	\$182,211
Lots.....	614	567,818	.....	1,154	30	37,199	.....	55	40,871
Totals.....	873	\$1,030,807	18,704	1,154	68	\$269,530	3,649	55	\$223,082

## STEPHENSON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	422	\$509,561	28,901	.....	2	\$6,000	317	.....	\$7,548
Lots.....	219	164,127	.....	478	3	1,850	.....	4	2,813
Totals.....	641	\$673,688	28,901	478	5	\$7,850	317	4	\$10,361

1887.									
Lands.....	310	\$512,683	23,829	.....	11	\$10,111	335	.....	\$12,069
Lots.....	320	272,716	.....	562	7	8,993	.....	11	9,859
Totals.....	630	\$785,399	23,829	562	18	\$18,504	335	11	\$21,928

## TAZEWELL COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	249	\$418,051	22,229	.....	2	\$21,000	544	.....	\$29,622
Lots.....	117	76,318	.....	275	*	.....	.....	.....	.....
Totals.....	366	\$494,369	22,229	275	2	\$21,000	544	.....	\$29,622

\*No foreclosures on lots.

1887.									
Lands.....	246	\$554,255	24,140	.....	3	\$4,400	283	.....	\$5,332
Lots.....	189	115,153	.....	356	4	7,268	.....	5	7,579
Totals.....	435	\$669,408	24,140	356	7	\$11,668	283	5	\$12,911

## UNION COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	128	\$78,657	13,169	.....	12	\$6,681	1,068	.....	\$6,696
Lots.....	40	26,893	.....	79	4	3,900	.....	4	4,761
Totals.....	168	\$105,550	13,169	79	16	\$10,581	1,068	4	\$11,457
1887.									
Lands.....	142	\$82,066	13,077	.....	16	\$11,895	978	.....	\$14,728
Lots.....	75	36,678	.....	118	1	400	.....	1	481
Totals.....	217	\$118,744	13,077	118	17	\$12,295	978	1	\$15,209

## VERMILION COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	453	\$501,891	34,846	.....	44	\$52,680	3,576	.....	\$70,455
Lots.....	220	158,244	.....	304	34	26,838	.....	67	27,382
Totals.....	673	\$660,135	34,846	304	*78	\$79,518	3,576	67	\$97,837

\* Not including 2 cases for which there are no files.

1887.									
Lands.....	538	\$639,650	36,193	.....	17	\$11,190	852	.....	\$13,457
Lots.....	550	427,809	.....	756	34	26,159	.....	65	28,948
Totals.....	1,088	\$1,067,459	36,193	756	*51	\$37,289	852	65	\$42,405

\* Not including 2 cases for which there are no files.

## WABASH COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	106	\$75,423	7,757	.....	8	\$4,184	354	.....	\$4,433
Lots.....	50	32,198	.....	81	6	3,664	.....	12	4,955
Totals.....	156	\$107,621	7,757	81	*14	\$7,848	354	12	\$9,388

\* Not including 2 cases for which there are no files.

1887.									
Lands.....	132	\$72,474	7,745	.....	5	\$3,080	252	.....	\$5,258
Lots.....	125	45,866	.....	144	16	11,652	.....	29	12,065
Totals.....	257	\$118,340	7,745	144	21	\$14,732	252	29	\$17,323

## WARREN COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	206	\$373,460	17,805	.....	4	\$11,965	588	.....	\$13,463
Lots.....	80	72,195	.....	115	3	1,050	.....	3	1,268
Totals.....	286	\$445,655	17,805	115	*7	\$13,015	588	3	\$14,731

\*Not including one case for which there are no files.

1887.									
Lands.....	218	\$369,431	21,361	.....	10	\$28,300	635	.....	\$37,453
Lots.....	127	84,977	.....	190	4	1,164	.....	4	1,648
Totals.....	345	\$454,408	21,361	190	*14	\$29,464	635	4	\$39,101

\*Not including one case for which there are no files.

## WASHINGTON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	348	\$350,004	26,772	.....	6	\$5,904	525	.....	\$6,015
Lots.....	75	35,763	.....	167	2	3,438	.....	8	4,271
Totals.....	423	\$385,767	26,772	167	8	\$9,342	525	8	\$10,286

1887.									
Lands.....	229	\$232,272	22,210	.....	48	\$52,046	3,927	.....	\$63,100
Lots.....	79	41,006	.....	291	11	18,504	.....	29	20,608
Totals.....	308	\$273,278	22,210	291	59	\$70,550	3,927	29	\$83,708

## WAYNE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.*									
Lands.....	.....	.....	.....	.....	13	\$7,864	1,285	.....	\$7,691
Lots.....	.....	.....	.....	.....	2	189	.....	7	217
Totals.....	.....	.....	.....	.....	†15	\$8,053	1,285	7	\$7,908

\*Records destroyed by fire.

†Not including one case for which there are no files.

1887.									
Lands.....	447	\$151,949	28,118	.....	35	\$22,535	3,045	.....	\$28,545
Lots.....	113	41,105	.....	166	6	2,703	.....	9	2,811
Totals.....	560	\$193,054	28,118	166	41	\$25,238	3,045	9	\$31,356



## WHITE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	314	\$230,748	27,178	.....	24	\$19,530	2,070	.....	\$22,814
Lots.....	112	45,169	.....	200	9	3,305	.....	20	3,592
Totals.....	426	\$275,917	27,178	200	33	\$22,835	2,070	20	\$26,406
1887.									
Lands.....	388	\$190,346	26,394	.....	16	\$21,895	1,163	.....	\$15,249
Lots.....	106	59,574	.....	220	10	2,539	.....	15	3,243
Totals.....	494	\$249,920	26,394	220	26	\$24,434	1,163	15	\$18,492

## WHITESIDE COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	381	\$494,186	33,663	.....	12	\$12,228	628	.....	\$15,535
Lots.....	151	120,902	.....	369	10	21,348	.....	29	18,895
Totals.....	532	\$615,088	33,663	369	22	\$33,576	628	29	\$34,430
1887.									
Lands.....	369	\$605,929	37,445	.....	14	\$47,863	1,921	.....	\$38,221
Lots.....	215	127,849	.....	450	11	6,872	.....	16	7,915
Totals.....	584	\$733,778	37,445	450	25	\$54,735	1,921	16	\$46,136

## WILL COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	412	\$730,045	36,686	.....	8	\$31,699	732	.....	\$29,602
Lots.....	269	312,372	.....	533	*5	1,940	.....	10	2,588
Totals.....	681	\$1,042,417	36,686	533	13	\$33,639	732	10	\$32,190

\*Not including 2 cases, dismissed, for \$5,062 on 200 acres.

1887.									
Lands.....	351	\$706,423	31,867	.....	.....	.....	.....	.....	.....
Lots.....	713	750,143	.....	1,034	7	\$9,600	.....	14	\$9,271
Totals.....	1,064	\$1,456,566	31,867	1,034	*7	\$9,600	.....	14	\$9,271

\*Not including 7 cases, dismissed, for \$3,700 on 180 acres, and \$13,200 on 8 lots.

## WILLIAMSON COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	110	\$33,227	7,701	.....	6	\$1,393	386	.....	\$1,602
Lots.....	13	1,904	.....	24	*	.....	.....	.....	.....
Totals.....	123	\$35,181	7,701	24	6	\$1,393	386	.....	\$1,602

\* No foreclosures on lots.

1887.									
Lands.....	224	\$74,419	14,726	.....	18	\$8,181	1,580	.....	\$8,874
Lots.....	56	17,409	.....	116	3	625	.....	4	550
Totals.....	280	\$91,828	14,726	116	21	\$8,806	1,580	4	\$9,424

## WINNEBAGO COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	288	\$432,070	21,963	.....	6	\$21,499	468	.....	\$29,101
Lots.....	223	283,490	.....	296	9	6,975	.....	13	7,711
Totals.....	511	\$715,560	21,963	296	15	\$28,474	468	13	\$36,812

1887.									
Lands.....	175	\$319,985	12,487	.....	6	\$19,350	624	.....	\$22,427
Lots.....	392	414,098	.....	524	11	171,255	.....	27	218,912
Totals.....	567	\$734,083	12,487	524	17	\$190,605	624	27	\$241,339

## WOODFORD COUNTY.

CLASSES.	MORTGAGES MADE.				MORTGAGES FORECLOSED.				
	No.	Amount.	Acres.	Lots.	No.	Amount.	Acres.	Lots.	Amount of decrees.
1880.									
Lands.....	193	\$284,474	16,433	.....	8	\$12,384	523	.....	\$14,886
Lots.....	61	25,068	.....	195	7	10,073	.....	45	10,804
Totals.....	254	\$309,542	16,433	195	15	\$22,457	523	45	\$25,690

1887.									
Lands.....	163	\$314,358	15,456	.....	8	\$9,502	617	.....	\$12,769
Lots.....	69	38,067	.....	176	4	1,225	.....	7	1,163
Totals.....	232	\$352,425	15,456	176	12	\$10,727	617	7	\$13,932

## CHAPTER II.

## JUDGMENTS.

The judgments which have been scheduled in this investigation are those only which appear on the records of State courts. Those rendered in United States courts have not been sought for the reason that the jurisdiction of these courts is not confined to state limits, and their business is chiefly with interstate and corporation litigants, judgments against whom do not come within the scope of this investigation. Doubtless there may be found on the federal records certain judgments properly belonging to the class taken from the records of local courts, but this inquiry could not well be extended beyond the records found at county seats.

On the dockets of the local courts, judgments are recorded as having been rendered in various causes of action designated as debt, assumpsit, confession, attachment, condemnation, trespass, etc., and for the costs in the same. From this list, judgments in condemnation and trespass suits have been omitted; also those for costs alone, in cases which have been dismissed. All judgments docketed as for debt, assumpsit, confession and attachment, and for the costs pertaining to them have been scheduled and are summarized in the following tables. In addition to these, a special set of schedules has been made of judgments taken by confession on judgment notes, the totals of which, for each county, have also been tabulated.

As the purpose of this inquiry has been to show the relative amounts of judgments and mortgages placed on record in given periods, the years for which the judgment records and the judgment notes have been taken, correspond with those for which the mortgage records were scheduled, namely, 1880 and 1887, and in order to bring out the relative magnitude of these vari-

ous forms of recorded debt, the final table shows for each county the whole number and aggregate amount of the judgments, judgment notes, chattel mortgages, and real estate mortgages, recorded during each of these years.

The first table is devoted to a presentation of the number and amount of the judgments rendered in each county in each of the two years, so arranged as to afford a ready comparison, and analyzed by the different causes under which they have been rendered. In Cook county, however, the records have been examined for the three years, 1875, 1880 and 1887, thus affording a somewhat broader view of the experience of that county in the matter of judgments.

The second table consists of a similar arrangement of judgments taken by confession on judgment notes, showing the number and amount of these for each of the two years, and for each county in which such judgments were recorded. There were, however, twenty counties in the State, mostly in the southern part of it, in which no records of judgments rendered on judgment notes during these two years, were found.

The third table shows a grouping of the totals of the two preceding tables, in comparison with the number and amounts of chattel mortgages, and of real estate mortgages made and recorded in each county during the same years.

From the totals of this table it will appear that in 1880 the sum of all the judgments rendered was equivalent to 9.8 per cent. of the face of all the mortgages recorded, and that in 1887 this percentage was 11.2 per cent.

The whole number of judgments rendered in the State in 1880 was 8,145; the whole number of mortgages was 79,980, the former being 10.14 per cent. of the latter. The number of judgments in 1887 was 13,322, and of mortgages 125,923, the former being 10.6 per cent. of the latter. These numbers and amounts embrace all kinds of judgments and both real estate and chattel mortgages. Other percentages may be deduced and the relative amount of debt recorded in various counties and years, may be observed by reference to the tables. The summaries for the first table, relating to judgments, are as follows:

TABLE I.—*Judgments rendered in the Courts of Record of Illinois during the years 1880 and 1887, by counties.***THE STATE.**

CAUSES OF ACTION.	1880.		1887.	
	No.	Amount.	No.	Amount.
Totals .....	7,235	\$5,103,241	10,804	\$10,404,272
Debt.....	2,519	\$1,234,077	3,221	\$1,153,233
Assumpsit.....	3,628	2,379,670	4,614	4,544,427
Confession.....	726	1,074,256	2,387	3,145,571
Attachment.....	362	232,295	579	1,222,529
Costs.....	6,920	182,943	10,261	338,512

**COUNTIES.**

COUNTIES AND YEARS.	CAUSES OF ACTION.								Costs.		TOTAL.	
	DEBT.		ASSUMPSIT.		CONFESSION.		ATTACHM'T.					
	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Amount.
Adams.....1880	25	\$13,849	110	\$63,254	26	\$8,675	5	\$976	166	\$1,889	166	\$8,643
1887	4	3,704	60	22,437	1	111	4	3,929	69	635	69	30,816
Alexander...1880	1	613	18	7,406	.....	.....	2	492	21	314	21	8,825
1887	2	463	11	5,447	22	18,742	.....	.....	35	474	35	25,126
Bond.....1880	12	683	10	3,724	.....	.....	.....	.....	22	329	22	4,796
1887	11	853	17	5,149	.....	.....	1	296	27	337	29	6,635
Boone.....1880	5	472	9	1,882	.....	.....	1	50	15	137	15	2,541
1887	2	48	7	2,968	.....	.....	1	277	10	151	10	3,444
Brown.....1880	3	3,013	17	7,306	.....	.....	.....	.....	20	286	20	10,605
1887	1	200	26	5,422	.....	.....	12	854	39	543	39	7,019
Bureau.....1880	6	215	25	9,851	.....	.....	8	1,015	39	826	39	11,907
1887	9	828	15	8,246	.....	.....	9	8,053	33	746	33	17,873
Calhoun.....1880	8	2,258	6	3,442	.....	.....	1	135	15	202	15	6,087
1887	10	2,190	11	2,667	.....	.....	1	728	19	421	22	6,006
Carroll.....1880	7	827	23	7,477	.....	.....	2	150	32	489	32	8,943
1887	5	793	7	2,674	.....	.....	.....	.....	12	268	12	3,735
Cass.....1880	34	7,546	26	13,955	.....	.....	4	1,322	64	763	64	23,586
1887	24	2,295	18	7,198	.....	.....	5	1,161	45	744	45	11,398
Champaign..1880	96	18,845	73	61,991	27	8,084	13	3,355	207	3,111	209	95,386
1887	52	9,475	45	19,966	36	13,919	3	841	111	1,472	136	45,673
Christian....1880	38	3,719	21	20,487	3	1,687	1	69	63	1,235	63	27,147
1887	49	2,544	49	53,369	4	6,492	4	1,785	106	2,975	106	67,165
Clark.....1880	27	6,359	32	15,276	1	1,721	1	330	60	866	61	24,552
1887	20	1,391	32	18,171	12	2,888	3	2,102	64	798	67	25,350

Table I.—Continued.

COUNTIES AND YEARS.	CAUSES OF ACTION.								Costs.		TOTAL.	
	DEBT.		ASSUMPSIT.		CONFESSION.		ATTACHM'T.					
	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Amount.
Clay.....1880	6	\$367	17	\$6,348	.....	.....	.....	.....	23	\$456	23	\$7,171
1887	5	613	19	6,538	.....	.....	3	\$221	27	588	27	7,960
Clinton.....1880	4	36	5	5,781	.....	.....	.....	.....	8	186	9	6,008
1887	.....	.....	25	9,396	1	\$396	1	196	25	307	27	10,294
Coles.....1880	35	3,181	40	50,022	1	745	7	604	82	1,088	83	55,635
1887	36	2,593	29	14,496	19	8,847	5	448	89	1,841	89	28,226
Cook.....1875	934	818,717	1998	2,592,357	1026	1,182,704	153	191,283	.....	.....	4161	4,785,061
1880	860	883,921	682	713,625	855	851,873	114	120,980	1904	95,571	1991	2,666,070
1887	1518	797,446	1333	2,817,153	1566	2,604,811	290	1,108,766	4470	245,714	4707	7,573,890
Crawford.....1880	10	866	21	5,687	1	480	.....	.....	20	905	32	7,338
1887	19	1,152	22	8,807	.....	.....	.....	.....	41	518	41	10,477
Cumberland.....1880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1887	13	839	24	6,408	7	3,960	.....	.....	41	934	44	12,141
DeKalb.....1880	15	1,510	21	6,745	.....	.....	1	300	37	713	37	9,268
1887	7	593	4	1,554	.....	.....	2	678	14	157	14	2,982
DeWitt.....1880	30	10,768	15	4,804	.....	.....	.....	.....	35	714	45	16,286
1887	32	3,609	27	10,866	5	19,933	3	908	58	980	67	36,291
Douglas.....1880	5	804	10	2,965	.....	.....	3	240	18	377	18	4,386
1887	19	2,001	41	19,312	3	371	2	133	65	1,102	65	22,919
DuPage.....1880	.....	.....	11	1,980	4	1,061	1	2,350	16	108	16	5,499
1887	1	5,500	6	1,532	11	9,041	2	382	20	150	20	16,605
Edgar.....1880	44	3,353	108	82,352	.....	.....	.....	.....	152	2,497	152	38,202
1887	60	4,667	43	21,508	9	4,831	1	379	113	1,760	113	33,145
Edwards.....1880	1	60	4	707	.....	.....	.....	.....	5	52	5	819
1887	.....	.....	16	7,757	.....	.....	.....	.....	16	146	16	7,908
Effingham.....1880	48	5,778	16	6,151	.....	.....	1	3,184	65	952	65	16,069
1887	25	2,932	22	8,780	7	7,551	.....	.....	54	848	54	20,111
Fayette.....1880	10	937	34	10,882	.....	.....	1	680	45	650	45	13,149
1887	20	1,005	40	15,916	.....	.....	.....	.....	10	131	60	17,052
Ford.....1880	11	4,855	13	3,447	15	3,128	4	400	43	679	43	12,509
1887	6	491	7	151	44	18,337	1	50	53	304	58	19,333
Franklin.....1880	4	222	13	4,087	1	26	1	428	19	570	19	5,333
1887	10	242	14	6,340	.....	.....	1	339	25	443	25	7,354
Fulton.....1880	3	758	43	22,603	2	204	.....	.....	48	664	48	24,229
1887	9	3,111	50	15,654	1	72	.....	.....	60	533	60	19,370
Gallatin.....1880	2	768	13	2,112	.....	.....	1	216	16	348	16	3,444
1887	1	110	22	10,606	.....	.....	2	1,301	26	375	25	12,392
Green.....1880	15	1,497	23	12,047	.....	.....	2	140	37	1,309	40	14,993
1887	35	2,470	35	21,899	1	2,046	7	2,949	78	1,545	78	30,908
Grundy.....1880	5	2,055	11	8,258	.....	.....	.....	.....	16	417	16	10,730
1887	2	42	5	5,242	.....	.....	.....	.....	7	75	7	5,359
Hamilton.....1880	11	56	12	2,542	.....	.....	2	1,503	15	225	15	4,326
1887	11	1,143	15	4,186	1	200	.....	.....	27	314	27	5,843
Hancock.....1880	6	12,961	54	13,049	2	2,882	4	1,268	66	588	66	30,748
1887	1	2,400	53	7,259	1	16,457	5	2,748	60	520	60	29,384
Hardin.....1880	1	20	8	7,391	.....	.....	2	82	.....	.....	11	7,493
1887	.....	.....	10	2,373	.....	.....	.....	.....	10	148	10	2,521
Henderson.....1880	3	327	8	4,619	.....	.....	1	400	12	119	12	5,465
1887	8	470	13	4,102	.....	.....	3	531	23	449	24	5,552

Table I.—Continued.

COUNTIES AND YEARS.	CAUSES OF ACTION.								Costs.		TOTAL.	
	DEBT.		ASSUMPSIT.		CONFESSION.		ATTACHMENT.					
	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Amount.
Henry ..... 1880	10	\$543	34	\$18,611	.....	.....	5	\$1,182	49	\$646	49	\$20,982
1887	5	71	30	12,627	1	\$42 00	3	879	39	501	39	14,120
Iroquois..... 1880	6	928	25	4,229	51	12,806	4	1,709	86	932	86	20,640
1887	7	1,924	29	5,151	44	12,184	2	2,090	82	930	82	22,279
Jackson ..... 1880	14	1,722	26	9,251	1	245	4	1,792	45	1,441	45	14,451
1887	22	2,008	35	17,388	.....	.....	6	1,156	63	757	63	21,304
Jasper..... 1880	20	1,706	12	5,108	.....	.....	1	154	33	532	33	7,500
1887	25	2,444	13	4,900	6	1,381	.....	.....	44	621	44	9,346
Jefferson..... 1880	6	2,090	18	4,922	1	30	2	184	27	620	27	7,846
1887	4	424	26	5,652	1	154	2	866	33	373	33	7,469
Jersey..... 1880	15	1,926	20	10,797	.....	.....	3	1,744	38	986	38	15,453
1887	24	2,140	54	38,886	.....	.....	7	1,771	85	1,099	85	43,896
JoDavies... 1880	4	1,355	9	6,179	.....	.....	9	1,653	18	693	22	9,880
1887	7	220	10	3,004	.....	.....	.....	.....	16	188	17	3,412
Johnson..... 1880	8	3,217	14	4,221	.....	.....	2	330	24	187	24	7,955
1887	3	74	5	1,263	.....	.....	.....	.....	7	62	8	1,399
Kane..... 1880	1	25	30	11,395	19	13,026	.....	.....	50	929	50	25,375
1887	4	978	38	8,698	25	6,892	2	573	69	550	69	17,691
Kankakee... 1880	1	1,216	22	8,624	14	17,297	3	347	40	424	40	27,908
1887	3	370	18	7,515	15	2,616	1	423	37	457	37	11,386
Kendall..... 1880	.....	.....	17	3,856	2	1,103	.....	.....	19	298	19	5,257
1887	.....	.....	8	2,346	15	8,423	1	140	24	191	24	11,100
Knox ..... 1880	37	4,743	33	20,301	.....	.....	5	3,121	75	1,425	75	29,590
1887	53	3,964	36	27,101	.....	.....	4	2,417	93	1,233	93	34,715
Lake..... 1880	.....	.....	7	2,312	10	9,717	.....	.....	17	102	17	12,131
1887	.....	.....	10	11,350	9	10,194	.....	.....	19	179	19	21,723
LaSalle ..... 1880	30	2,560	31	21,133	2	317	9	8,120	72	974	72	33,104
1887	37	6,754	73	76,256	2	226	5	1,499	117	6,575	117	91,310
Lawrence ... 1880	15	1,570	13	6,859	1	604	1	10	30	613	30	9,656
1887	12	1,280	33	14,637	3	4,771	2	296	49	663	49	21,647
Lee ..... 1880	8	1,247	14	9,354	.....	.....	.....	.....	16	215	22	10,816
1887	16	7,922	40	52,798	.....	.....	6	1,337	56	852	62	62,904
Livingston .. 1880	2	1,111	37	8,208	39	9,869	2	1,246	80	612	80	21,041
1887	1	10	34	17,151	34	15,344	7	2,493	76	695	76	35,693
Logan ..... 1880	91	29,978	57	30,772	12	22,498	7	1,407	145	2,897	167	87,492
1887	53	10,843	33	37,477	61	26,724	2	1,763	131	2,361	149	79,168
Macon..... 1880	37	3,531	17	7,608	3	407	.....	.....	57	1,205	57	12,751
1887	84	52,991	32	16,865	12	3,936	10	6,267	136	1,914	138	81,973
Macoupin ... 1880	16	2,176	25	17,129	.....	.....	3	3,688	44	634	44	23,627
1887	13	8,519	35	32,951	.....	.....	9	1,647	107	1,430	107	44,547
Madison ..... 1880	57	11,765	59	28,602	4	3,713	2	111	32	528	122	44,719
1887	36	3,304	76	42,735	6	6,836	1	71	10	234	119	53,180
Marion ..... 1880	6	112	10	2,368	1	200	1	199	18	457	18	3,336
1887	13	395	18	5,398	.....	.....	5	509	36	520	36	6,822
Marshall..... 1880	4	7,125	18	10,732	.....	.....	5	2,732	27	937	27	21,526
1887	2	43	11	3,539	.....	.....	.....	.....	13	155	13	3,737

Table I.—Continued.

COUNTIES AND YEARS.	CAUSES OF ACTION.								Costs.		TOTAL.	
	DEBT.		ASSUMPSIT		CONFESSION		ATTACHM'T.					
	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Amount.
Mason.....1880	3	\$990	71	\$20,789	9	\$12,290	11	\$4,507	94	\$765	94	\$39,341
1887	1	200	30	39,402	7	4,876	2	1,310	40	368	40	46,156
Massac.....1880	2	1,190	6	2,455	3	1,238	3	1,657	14	112	14	6,652
1887	.....	.....	8	2,141	7	3,499	1	761	16	144	16	6,545
McDonough.1880	1	135	82	16,492	1	119	5	493	89	693	89	17,872
1887	4	1,334	50	13,178	1	502	7	901	62	919	62	16,934
McHenry.....1880	2	2,139	17	4,876	2	881	.....	.....	21	220	21	8,116
1887	.....	.....	22	3,281	52	9,600	5	1,639	79	528	79	15,048
McLean.....1880	82	11,799	87	55,587	21	25,000	2	298	192	4,661	192	97,345
1887	133	9,481	142	62,782	103	78,697	4	181	362	6,472	362	157,583
Menard.....1880	1	51	44	16,670	1	986	.....	.....	46	459	46	18,166
1887	1	236	30	13,378	.....	.....	.....	.....	31	294	31	13,903
Mercer.....1880	13	2,683	21	14,803	3	459	7	2,498	44	496	44	20,942
1887	8	1,461	18	10,794	.....	.....	3	259	29	401	29	12,915
Monroe.....1880	6	505	20	20,443	.....	.....	.....	.....	26	309	26	21,257
1887	11	2,351	21	4,902	.....	.....	3	493	35	486	35	8,232
Montgomery.1880	20	1,961	35	89,381	.....	.....	6	1,150	70	1,170	70	93,662
1887	40	2,063	36	39,740	5	920	6	2,276	87	1,711	87	98,710
Morgan.....1880	36	18,745	42	38,452	.....	.....	6	661	66	882	81	58,740
1887	24	8,001	43	30,120	.....	.....	2	2,031	49	526	69	40,684
Moultrie.....1880	14	1,421	19	13,859	4	1,381	1	417	37	882	38	17,960
1887	16	790	36	16,699	5	1,279	3	1,499	60	1,400	60	21,667
Ogle.....1880	7	1,572	36	10,913	.....	.....	.....	.....	43	3,695	43	16,185
1887	5	732	35	22,293	1	55	.....	.....	41	623	41	23,703
Peoria.....1880	15	9,348	123	196,652	6	2,598	12	21,361	156	1,710	156	231,669
1887	16	5,941	198	96,442	2	1,100	10	13,733	226	1,911	226	119,132
Perry.....1880	8	858	7	2,319	.....	.....	3	652	18	1,116	18	4,975
1887	2	25	6	5,474	.....	.....	1	65	9	201	9	5,765
Piatt.....1880	28	1,798	17	5,638	13	10,289	.....	.....	58	610	58	18,335
1887	13	1,692	20	10,246	12	15,695	2	2,530	45	661	47	30,824
Pike.....1880	10	2,819	66	26,773	3	1,363	3	1,670	82	1,591	82	34,246
1887	.....	.....	75	19,908	3	1,492	10	2,867	88	1,045	88	24,712
Pope.....1880	1	836	8	546	.....	.....	.....	.....	9	359	9	1,741
1887	.....	.....	5	2,051	.....	.....	.....	.....	5	135	5	2,186
Pulaski.....1880	1	460	4	2,871	.....	.....	3	2,448	8	161	8	5,940
1887	12	4,398	.....	.....	.....	.....	.....	.....	12	256	12	4,654
Putnam.....1880	3	77	3	777	.....	.....	1	1,523	7	97	7	2,479
1887	1	60	6	1,671	.....	.....	1	220	8	110	8	2,061
Randolph....1880	14	706	49	20,817	2	120	1	191	64	1,411	66	23,245
1887	10	907	44	14,954	1	51	2	703	53	803	57	17,418
Richland....1880	31	9,085	17	6,085	1	50	2	184	51	1,189	51	16,593
1887	23	3,066	22	7,657	6	20,390	.....	.....	51	1,117	51	32,230
Rock Island.1880	19	5,717	37	23,794	3	1,153	5	1,132	64	659	64	32,455
1887	27	2,855	38	18,282	.....	.....	2	1,419	67	776	67	23,332
Saline.....1880	1	413	21	2,650	.....	.....	.....	.....	22	266	22	3,329
1887	1	28	18	8,423	.....	.....	.....	.....	19	464	19	8,914
Sangamon....1880	50	19,244	45	37,440	5	7,348	4	5,101	104	2,000	104	71,133
1887	53	17,864	107	80,900	.....	.....	5	3,481	149	2,177	165	103,822



Table I.—Concluded.

COUNTIES AND YEARS.	CAUSES OF ACTION.								Costs.		TOTAL.	
	DEBT.		ASSUMPSIT.		CONFESSION.		ATTACHM'T.					
	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Am't.	No.	Amount.
Schuyler .... 1880	1	\$600	42	\$7,277	.....	.....	5	23,305	48	\$478	48	\$11,760
1887	2	359	21	7,239	24	12,168	2	266	49	457	49	20,489
Scott..... 1880	3	1,371	22	8,408	.....	.....	.....	.....	25	418	25	10,197
1887	8	9,037	18	7,269	.....	.....	3	1,217	29	349	29	17,872
Shelby..... 1880	17	1,262	43	27,097	2	365	1	550	20	203	63	29,477
1887	45	3,158	30	13,428	5	2,502	.....	.....	80	1,233	80	20,321
Stark ..... 1880	4	137	24	8,711	1	95	3	632	32	579	32	10,154
1887	7	1,660	15	4,084	.....	.....	1	70	23	573	23	6,387
St. Clair .... 1880	119	24,967	81	121,028	1	5,570	6	6,186	204	7,398	207	165,149
1887	72	82,279	124	136,601	8	8,119	11	4,614	197	9,665	215	241,178
Stephenson. 1880	7	691	11	5,376	.....	.....	.....	.....	18	203	18	6,270
1887	16	6,983	17	5,628	1	42	4	2,148	38	317	38	15,118
Tazewell .... 1880	9	9,093	51	27,764	3	4,611	4	2,805	67	767	67	44,950
1887	6	3,912	51	25,797	2	327	5	1,841	64	518	64	32,396
Union..... 1880	15	2,512	24	4,537	.....	.....	.....	.....	39	634	39	7,673
1887	7	23	12	3,287	.....	.....	1	2	19	318	20	3,843
Vermilion... 1880	85	8,944	85	43,606	14	3,645	6	1,263	190	2,485	190	59,943
1887	111	9,210	76	24,370	88	53,090	7	1,249	281	2,853	282	90,772
Wabash ..... 1880	4	323	8	3,793	.....	.....	.....	.....	12	131	12	4,252
1887	10	336	24	7,653	.....	.....	1	1,136	35	453	35	9,578
Warren..... 1880	18	4,164	21	13,208	.....	.....	.....	.....	39	1,135	39	18,507
1887	11	2,935	14	10,683	.....	.....	2	1,555	27	558	27	15,731
Washington. 1880	10	250	18	9,845	.....	.....	1	360	29	439	29	10,894
1887	9	796	27	13,896	.....	.....	2	308	38	430	38	15,430
Wayne..... 1880	1	25	.....	.....	.....	.....	.....	.....	1	4	1	29
1887	7	266	19	8,092	.....	.....	4	801	30	626	30	9,785
White..... 1880	5	342	18	3,990	.....	.....	1	152	24	360	24	4,844
1887	10	517	46	18,410	.....	.....	4	1,157	60	1,102	60	21,186
Whiteside... 1880	19	757	42	14,476	4	646	6	902	62	689	71	17,470
1887	11	239	60	24,859	.....	.....	4	1,279	71	711	75	27,068
Will ..... 1880	25	4,993	101	12,798	17	19,043	2	284	145	1,879	145	38,997
1887	2	134	51	34,590	68	92,354	2	745	123	909	123	128,732
Williamson. 1880	7	1,060	11	3,353	.....	.....	.....	.....	18	577	18	4,990
1887	5	944	30	24,141	1	86	3	624	39	695	39	25,850
Winnebago.. 1880	20	3,506	51	26,269	1	151	.....	.....	72	871	72	30,797
1887	21	2,052	35	18,096	.....	.....	1	106	57	683	57	20,917
Woodford... 1880	4	435	18	10,202	8	1,867	1	170	31	763	31	13,437
1887	12	516	15	5,560	.....	.....	8	883	35	558	35	7,517

TABLE II.—*Judgments taken by Confession on Judgment Notes, in the State of Illinois during the years 1880 and 1887.*

COUNTIES AND YEARS.	THE JUDGMENT.			TOTAL.	
	Amount.	Att'ys Fees.	Costs.	No.	Amount.
The State.....1880	\$1,368,000	\$32,791	\$5,950	910	\$1,406,741
.....1887	2,917,001	85,945	19,290	2,518	3,022,236
Adams.....1880	\$5,438	\$165	\$33	7	\$5,636
.....1887	12,299	173	19	4	12,491
Boone.....1880	770	43	8	2	821
.....1887	14,601	262	158	31	15,021
Bureau.....1880	2,012	100	27	1	2,139
.....1887	4,380	130	48	6	4,558
Carroll.....1880	3,354	10	11	3	3,375
.....1887	238	25	6	1	239
Cass.....1880	.....	.....	.....	.....	.....
.....1887	8,880	165	104	14	9,099
Champaign.....1880	8,094	500	227	27	8,821
.....1887	13,920	663	398	36	14,981
Clark.....1880	1,721	121	50	1	1,892
.....1887	2,887	41	42	12	2,970
Clinton.....1880	5,976	130	41	8	6,147
.....1887	274	.....	4	1	278
Coles.....1880	745	.....	.....	1	745
.....1887	8,817	436	138	19	9,421
Cook.....1880	959,646	21,834	2,333	345	983,813
.....1887	1,848,258	57,185	9,069	1,233	1,914,512
Cumberland.....1880	.....	.....	.....	.....	.....
.....1887	3,960	84	25	7	4,069
DeKalb.....1880	14,606	1,127	206	39	15,939
.....1887	47,741	620	205	47	48,566
DeWitt.....1880	.....	.....	.....	.....	.....
.....1887	19,813	115	2,700	6	22,628
Douglas.....1880	.....	.....	.....	.....	.....
.....1887	371	36	23	3	430
DuPage.....1880	1,082	15	21	4	1,118
.....1887	9,135	303	59	11	9,497
Edgar.....1880	.....	.....	.....	.....	.....
.....1887	4,831	41	47	9	4,919
Edwards.....1880	2,701	75	4	2	2,780
.....1887	41	.....	24	1	65
Effingham.....1880	.....	.....	.....	.....	.....
.....1887	7,821	225	141	7	8,187
Ford.....1880	2,411	205	104	13	2,720
.....1887	14,845	744	353	38	15,942
Franklin.....1880	.....	.....	.....	.....	.....
.....1887	849	.....	12	5	861

Table II.—Continued.

COUNTIES AND YEARS.	THE JUDGMENT.			TOTAL.	
	Amount.	Att'ys Fees.	Costs.	No.	Amount.
Fulton.....1880	\$5,871	\$243	\$18	5	\$6,132
.....1887	8,927	272	16	6	9,215
Gallatin.....1880	.....	.....	.....	.....	.....
.....1887	* 197,105	.....	7	2	197,112
Grundy.....1880	4,004	350	96	15	4,450
.....1887	5,820	331	183	23	6,284
Hamilton.....1880	1,300	.....	4	1	1,304
.....1887	.....	.....	.....	.....	.....
Hancock.....1880	1,253	.....	21	4	1,274
.....1887	2,368	.....	16	4	2,384
Hardin.....1880	1,595	.....	.....	1	1,595
.....1887	759	.....	11	2	770
Henry.....1880	5,378	30	53	9	5,461
.....1887	3,333	151	71	11	3,555
Iroquois.....1880	9,231	484	183	43	9,898
.....1887	11,208	567	195	43	11,970
Jackson.....1880	645	.....	11	2	656
.....1887	.....	.....	.....	.....	.....
Jasper.....1880	.....	.....	.....	.....	.....
.....1887	1,382	21	24	6	1,427
Jefferson.....1880	530	42	14	2	586
.....1887	3,157	125	34	7	3,316
JoDavies.....1880	1,395	50	10	2	1,455
.....1887	21,434	416	45	10	21,895
Johnson.....1880	542	.....	4	1	546
.....1887	.....	.....	.....	.....	.....
Kane.....1880	12,958	284	85	18	13,327
.....1887	6,645	300	99	22	7,044
Kankakee.....1880	16,632	421	373	13	17,426
.....1887	2,747	212	131	15	3,090
Kendall.....1880	1,115	35	12	2	1,162
.....1887	8,495	260	94	15	8,849
Knox.....1880	14,370	447	108	28	14,925
.....1887	15,998	654	83	12	16,735
Lake.....1880	9,737	180	50	10	9,967
.....1887	10,246	130	54	9	10,430
LaSalle.....1880	42,292	1,555	327	67	44,174
.....1887	73,389	2,287	447	83	76,123
Lawrence.....1880	.....	.....	.....	.....	.....
.....1887	4,771	168	20	3	4,959
Lee.....1880	7,209	240	34	9	7,483
.....1887	6,227	260	83	17	6,570
Livingston.....1880	8,735	676	255	39	9,716
.....1887	15,524	764	192	34	16,480
Logan.....1880	22,440	656	250	12	23,346
.....1887	26,823	849	640	62	28,312
Macon.....1880	2,856	126	58	11	3,040
.....1887	.....	.....	.....	.....	.....
Madison.....1880	1,813	.....	19	3	1,832
.....1887	6,836	75	22	6	6,933

\* One corporation note, \$196,792.

Table II.—Continued.

COUNTIES AND YEARS.	THE JUDGMENT.			TOTAL.	
	Amount.	Atty's Fees.	Costs.	No.	Amount.
Marion.....1880					
1887	\$218	\$20	\$10	2	\$248
Marshall.....1880	5,770	33	22	4	5,825
1887	7,661	188	57	11	7,906
McDonough.....1880	27,726		27	6	27,753
1887	727	40	6	2	773
McHenry.....1880	890	36	9	2	935
1887	9,675	952	261	48	10,888
McLean.....1880	25,000	493	213	21	25,706
1887	79,643	3,293	519	102	83,455
Menard.....1880	5,415	100	23	2	5,538
1887					
Mercer.....1880	787	38	14	2	839
1887	296	75	16	2	387
Montgomery.....1880					
1887	994	65		6	1,059
Morgan.....1880	483	30	7	2	520
1887	547		7	2	554
Moultrie.....1880	1,381			4	1,381
1887	1,279	83	13	5	1,375
Ogle.....1880	7,935	185	67	12	8,187
1887	18,419	900	381	33	19,700
Peoria.....1880	2,818	50	4	1	2,872
1887	17,404	880	153	39	18,437
Perry.....1880	2,779	10	14	5	2,803
1887	1,358	20	15	3	1,393
Piatt.....1880	10,289	5	2	13	10,296
1887	15,695	880	16	12	16,591
Pike.....1880	1,013	55	7	2	1,075
1887	500	25	3	1	528
Putnam.....1880					
1887	1,189	59	6	1	1,254
Randolph.....1880					
1887	97	20	10	2	127
Richland.....1880					
1887	20,390	60	19	6	20,469
Rock Island.....1880	18,180	260	60	11	18,500
1887	23,274	885	69	13	24,228
Saline.....1880					
1887	3,182	222	23	4	3,427
Sangamon.....1880	7,032	25	17	4	7,074
1887	9,474	196	29	7	9,699
Schuyler.....1880					
1887	279	25	2	1	306
Scott.....1880					
1887	1,552	100	4	1	1,656
Shelby.....1880	113	10	6	1	129
1887	2,231	75	27	4	2,333
Stark.....1880	3,214	10	11	2	3,235
1887	1,235	20	37	1	1,292

Table II.—Concluded.

COUNTIES AND YEARS.	THE JUDGMENT.			TOTAL.	
	Amount.	Atty's Fees.	Costs.	No.	Amount.
St. Clair.....1880					
1887	\$9,119		\$52	8	\$9,171
Stephenson.....1880	5,162	\$71	26	5	5,259
1887	7,530	45	16	3	7,591
Tazewell.....1880	6,526	190	31	5	6,747
1887	29,574	1,253	218	31	31,050
Vermilion.....1880	3,645	120	63	14	3,828
1887	42,610	2,438	235	87	45,343
Wabash.....1880					
1887	1,028	68	12	3	1,108
Warren.....1880	727		9	2	736
1887	1,116	10	8	1	1,134
Washington.....1880	218		3	1	271
1887	1,223		7	2	1,230
Whiteside.....1880	12,353	100	69	11	12,522
1887	12,976	665	135	30	13,826
Will.....1880	19,073	366	92	17	19,531
1887	99,795	2,150	438	67	102,383
Williamson.....1880					
1887	756	47	42	3	845
Winnebago.....1880	16,002	205	43	10	16,250
1887	27,224	452	105	20	27,781
Woodford.....1880	2,912	255	61	10	3,228
1887	9,909	639	217	22	10,765

NOTE.—No judgments of this class recorded in the following twenty counties during the years considered: Alexander, Bond, Brown, Calhoun, Christian, Clay, Crawford, Fayette, Macoupin, Mason, Massac, Monroe, Pope, Pulaski, Union, Greene, Henderson, Jersey, Wayne, White.

TABLE III.—*Judgments rendered in the Courts of Record of Illinois during the years 1880 and 1887, compared with Chattel and Real Estate Mortgages recorded during the same years.*

COUNTIES AND YEARS.	JUDGMENTS.		JUDGMENT NOTES.		CHATTEL MORTGAGES.		REAL ESTATE MORTGAGES.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
The State.....	1880 7,235 1887 10,804	\$5,103,241 10,404,272	910 2,518	\$1,406,741 3,022,236	38,175 62,263	\$10,445,345 17,357,175	41,805 63,660	\$52,610,483 99,795,684
Adams.....	1880 166 1887 69	\$88,643 30,816	7 4	\$5,636 12,491	284 366	\$96,931 130,607	576 774	\$704,414 938,526
Alexander.....	1880 21 1887 35	8,825 25,126	..... .....	..... .....	133 145	19,505 36,916	91 192	75,887 182,705
Bond.....	1880 22 1887 29	4,736 6,635	..... .....	..... .....	72 159	21,826 60,496	293 242	275,196 164,266
Boone.....	1880 15 1887 10	2,541 3,444	2 31	821 15,021	121 149	33,207 45,246	179 243	207,498 299,560
Brown.....	1880 20 1887 39	10,605 7,019	..... .....	..... .....	67 111	11,298 24,656	167 216	140,739 183,621
Bureau.....	1880 39 1887 33	11,907 17,873	1 6	2,139 4,558	310 372	109,743 157,604	555 674	869,490 817,837
Calhoun.....	1880 15 1887 22	6,037 6,006	..... .....	..... .....	72 88	16,503 15,710	98 91	76,235 64,647
Carroll.....	1880 32 1887 12	8,943 3,735	3 1	3,375 289	155 244	53,398 58,806	139 369	179,824 418,354
Cass.....	1880 64 1887 45	23,586 11,398	..... 14	..... 9,099	142 209	47,810 90,435	195 295	224,720 363,254
Champaign.....	1880 209 1887 136	95,386 45,673	27 36	8,821 14,981	911 906	278,808 212,954	762 860	718,489 851,734
Christian.....	1880 63 1887 106	27,147 67,165	..... .....	..... .....	333 458	110,206 141,972	428 512	502,292 496,189
Clark.....	1880 61 1887 67	21,552 25,350	1 12	1,892 2,970	179 146	66,541 53,644	318 434	151,455 179,833
Clay.....	1880 23 1887 27	7,171 7,960	..... .....	..... .....	92 114	28,305 41,102	175 217	85,031 115,621
Clinton.....	1880 9 1887 27	6,003 10,294	8 1	6,147 278	107 174	36,870 52,414	256 206	286,376 257,134
Coles.....	1880 83 1887 89	55,635 28,225	1 19	745 9,421	198 270	72,926 99,121	373 539	306,926 397,858
Cook.....	1875 4,101 1880 1,991 1887 4,707	4,785,061 2,570,499 7,328,176	..... 345 1,283	..... 983,813 1,914,512	9,843 13,923 30,790	5,846,771 3,328,231 7,879,928	11,859 7,281 20,659	38,435,226 16,181,737 54,379,992
Crawford.....	1880 32 1887 41	7,338 10,477	..... .....	..... .....	78 107	31,418 23,417	164 245	79,395 115,557
Cumberland.....	1880 ..... 1887 44	..... 12,141	..... 7	..... 4,069	..... 130	..... 23,274	..... 248	..... 139,653
DeKalb.....	1880 37 1887 14	9,268 2,982	39 47	15,999 48,566	436 373	129,683 147,889	399 347	535,071 475,744
DeWitt.....	1880 45 1887 67	16,286 36,291	..... 6	..... 22,628	226 244	64,012 78,473	244 318	244,939 365,933
Douglas.....	1880 18 1887 65	4,386 22,919	..... 3	..... 430	181 304	53,442 82,191	359 398	333,011 411,160
DuPage.....	1880 16 1887 20	5,499 16,605	4 11	1,118 9,497	91 108	33,413 45,227	239 303	357,289 509,284

Table III.—Continued.

COUNTIES AND YEARS.	JUDGMENTS.		JUDGMENT NOTES.		CHATTEL MORTGAGES.		REAL ESTATE MORTGAGES.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Edgar.....1880	152	\$38,202	.....	.....	200	\$67,917	353	\$341,042
1887	113	33,145	9	\$4,919	390	153,900	440	418,044
Edwards.....1880	5	819	2	2,780	51	10,612	144	70,582
1887	16	7,903	1	65	84	14,999	200	95,282
Effingham.....1880	65	16,069	.....	.....	126	23,998	254	153,280
1887	54	20,111	7	8,187	198	42,363	336	168,677
Fayette.....1880	45	13,149	.....	.....	251	47,775	363	205,855
1887	60	17,052	.....	.....	326	66,393	461	260,920
Ford.....1880	43	12,509	13	2,720	453	105,809	236	266,532
1887	58	19,333	38	15,942	399	117,531	346	432,711
Franklin.....1880	19	5,333	.....	.....	79	14,570	209	92,119
1887	25	7,354	5	861	107	8,795	161	71,814
Fulton.....1880	48	24,229	5	6,132	374	99,067	424	300,127
1887	60	19,370	6	9,215	509	159,082	830	780,955
Gallatin.....1880	16	3,444	.....	.....	217	42,026	172	114,027
1887	25	12,392	2	197,112	329	73,693	208	159,422
Greene.....1880	40	14,993	.....	.....	177	49,248	210	302,113
1887	78	30,909	.....	.....	353	109,705	238	236,062
Grundy.....1880	16	10,730	15	4,450	262	78,556	244	341,398
1887	7	5,359	23	6,284	266	82,742	239	372,069
Hamilton.....1880	15	4,326	1	1,304	153	48,780	237	96,367
1887	27	5,843	.....	.....	302	45,170	314	94,357
Hancock.....1880	66	30,748	4	1,274	229	61,139	467	418,291
1887	60	29,384	4	2,384	265	119,152	615	594,953
Hardin.....1880	11	7,493	1	1,595	.....	.....	.....	.....
1887	10	2,521	2	770	75	10,086	57	12,419
Henderson.....1880	12	5,465	.....	.....	151	35,676	130	164,336
1887	24	5,552	.....	.....	145	37,112	111	226,110
Henry.....1880	49	20,982	9	5,461	408	134,626	555	762,217
1887	39	14,120	11	3,555	408	150,994	516	721,135
Iroquois.....1880	86	20,604	43	9,898	848	235,939	626	669,982
1887	82	22,279	43	11,970	660	212,062	737	881,588
Jackson.....1880	45	14,451	2	656	286	61,636	343	250,871
1887	63	21,304	.....	.....	330	69,051	398	202,842
Jasper.....1880	33	7,500	.....	.....	32	16,887	236	110,327
1887	44	6,346	6	1,427	114	21,913	193	72,688
Jefferson.....1880	27	7,846	2	586	190	45,501	275	154,217
1887	33	7,469	7	3,316	218	82,813	307	123,251
Jersey.....1880	38	15,453	.....	.....	118	36,729	267	271,898
1887	35	43,396	.....	.....	191	61,224	235	290,516
JoDavies.....1880	22	9,880	2	1,455	169	50,369	364	376,361
1887	17	3,412	10	21,895	194	55,849	350	397,456
Johnson.....1880	24	7,955	1	546	77	9,578	93	22,776
1887	8	1,399	.....	.....	207	28,171	177	58,256
Kane.....1880	50	25,375	18	13,327	247	90,268	590	664,606
1887	69	17,691	22	7,044	663	282,557	1,277	1,315,973
Kankakee.....1880	40	27,908	13	17,426	285	80,101	377	413,573
1887	37	11,386	15	3,090	288	86,611	487	573,630
Kendall.....1880	19	5,257	2	1,162	83	31,613	94	196,370
1887	24	11,100	15	8,849	184	71,537	174	301,796

Table III.—Continued.

COUNTIES AND YEARS.	JUDGMENTS.		JUDGMENT NOTES.		CHATTEL MORTGAGES.		REAL ESTATE MORTGAGES.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Knox.....1880	75	\$29,590	28	\$14,925	582	\$184,725	585	\$732,066
.....1887	93	34,715	12	15,735	500	170,091	723	959,096
Lake.....1880	17	12,131	10	9,967	101	26,992	296	318,227
.....1887	19	21,723	9	10,430	152	51,272	417	481,971
LaSalle.....1880	72	33,104	67	44,174	548	214,297	812	1,018,947
.....1887	117	91,310	83	76,123	543	240,237	1,220	1,475,195
Lawrence.....1880	30	9,656	.....	.....	60	19,343	115	41,163
.....1887	49	21,647	3	4,959	86	18,741	217	107,038
Lee.....1880	22	10,816	9	7,483	381	135,582	409	640,906
.....1887	62	62,904	17	6,570	427	169,28	416	600,115
Livingston.....1880	80	21,041	39	9,716	433	112,350	608	607,083
.....1887	76	35,693	34	16,480	268	72,135	765	1,101,372
Logan.....1880	167	87,492	12	23,346	427	168,610	302	436,107
.....1887	149	79,168	62	28,312	644	231,837	468	551,308
Macon.....1880	57	12,751	11	3,040	378	96,794	506	502,050
.....1887	138	81,973	.....	.....	675	140,007	822	867,310
Macoupin.....1880	44	23,627	.....	.....	200	69,535	525	578,878
.....1887	107	44,547	.....	.....	372	137,108	476	475,504
Madison.....1880	122	44,719	3	1,832	254	75,987	600	782,765
.....1887	119	53,180	6	6,933	485	148,871	698	916,835
Marion.....1880	18	3,336	.....	.....	153	55,917	392	257,899
.....1887	36	6,322	2	248	271	66,192	329	180,477
Marshall.....1880	27	21,526	4	5,825	128	47,139	194	277,076
.....1887	13	3,737	11	7,906	145	49,013	182	295,951
Mason.....1880	94	39,341	.....	.....	345	88,424	188	215,982
.....1887	40	46,156	.....	.....	361	125,849	238	265,050
Massac.....1880	14	6,552	.....	.....	42	5,164	138	77,526
.....1887	16	6,545	.....	.....	94	12,806	171	74,032
McDonough.....1880	89	17,872	6	27,753	228	81,808	375	392,570
.....1887	62	16,834	2	773	335	108,826	447	417,322
McHenry.....1880	21	8,116	2	985	276	90,665	384	536,518
.....1887	79	15,048	48	10,888	376	120,016	388	547,119
McLean.....1880	192	97,345	21	25,706	656	160,445	178	973,102
.....1887	382	157,563	102	83,455	708	213,449	1,044	1,328,611
Menard.....1880	46	13,166	2	5,538	167	52,321	222	221,537
.....1887	31	13,903	.....	.....	224	77,736	242	322,120
Mercer.....1880	44	20,942	2	839	257	88,796	239	320,684
.....1887	29	12,915	2	387	265	86,499	279	372,144
Monroe.....1880	26	21,257	.....	.....	145	44,844	212	257,776
.....1887	35	8,232	.....	.....	245	89,753	173	225,837
Montgomery.....1880	70	93,662	.....	.....	156	59,472	474	525,017
.....1887	87	46,710	6	1,059	300	89,993	500	424,538
Morgan.....1880	84	58,740	2	520	256	110,988	453	563,282
.....1887	69	40,684	2	554	350	161,160	495	653,293
Moultrie.....1880	38	17,960	4	1,381	121	31,605	197	174,753
.....1887	60	21,667	5	1,375	228	58,097	342	296,802
Ogle.....1880	43	16,185	12	8,187	351	105,482	441	629,770
.....1887	41	23,703	33	19,700	397	119,221	574	591,266
Peoria.....1880	156	231,669	1	2,872	530	192,508	922	1,071,577
.....1887	226	119,132	39	18,437	909	312,290	1,441	2,006,803



Table III.—Continued.

COUNTIES AND YEARS.	JUDGMENTS.		JUDGMENT NOTES.		CHATTEL MORTGAGES.		REAL ESTATE MORTGAGES.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Perry ..... 1880	18	\$4,975	5	\$2,803	209	\$39,943	262	\$160,848
..... 1887	9	5,765	3	1,393	227	29,322	252	130,575
Piatt..... 1880	58	18,335	13	10,296	225	101,165	288	298,830
..... 1887	47	30,824	12	16,591	275	147,341	372	385,292
Pike..... 1880	82	34,246	2	1,075	259	64,979	539	580,985
..... 1887	88	24,712	1	528	527	129,861	401	360,227
Pope..... 1880	9	1,741	.....	.....	120	12,904	69	16,938
..... 1887	5	2,186	.....	.....	145	19,029	154	42,911
Pulaski..... 1880	8	5,940	.....	.....	110	15,931	46	14,381
..... 1887	12	4,654	.....	.....	98	16,065	90	14,220
Putnam..... 1880	7	2,479	.....	.....	33	7,969	75	80,349
..... 1887	8	2,061	1	1,254	66	33,470	92	136,265
Randolph..... 1880	66	23,245	.....	.....	246	61,190	359	360,172
..... 1887	57	17,418	2	127	359	70,792	265	202,658
Richland..... 1880	51	16,593	.....	.....	94	17,712	210	96,511
..... 1887	51	32,230	6	20,469	94	26,215	282	143,576
Rock Island..... 1880	64	32,455	11	13,500	228	64,685	591	644,324
..... 1887	67	23,332	13	21,228	266	78,122	652	755,318
Saline..... 1880	22	3,329	.....	.....	141	17,314	155	50,202
..... 1887	19	8,914	4	3,427	326	38,971	262	84,229
Sangamon..... 1880	101	71,133	4	7,074	797	139,005	699	1,068,141
..... 1887	165	103,822	7	9,699	907	279,058	631	1,453,663
Schuyler..... 1880	48	11,760	.....	.....	130	29,509	254	171,110
..... 1887	49	20,489	1	306	204	54,919	292	266,739
Scott..... 1880	25	10,197	.....	.....	124	35,635	62	90,874
..... 1887	29	17,872	1	1,656	201	51,672	133	158,340
Shelby..... 1880	63	20,477	1	129	531	94,813	356	261,316
..... 1887	80	20,321	4	2,333	532	18,147	716	451,928
Stark..... 1880	232	10,154	2	3,235	132	40,901	205	348,907
..... 1887	23	6,387	1	1,292	129	51,248	167	274,421
St. Clair..... 1880	207	165,149	.....	.....	258	95,187	469	636,852
..... 1887	215	241,178	8	9,171	479	158,437	873	1,030,807
Stephenson..... 1880	18	6,270	5	5,259	216	78,087	641	673,688
..... 1887	38	15,118	3	7,591	260	78,641	630	785,399
Tazewell..... 1880	67	44,950	5	6,747	198	81,871	366	494,369
..... 1887	64	32,395	31	31,050	338	116,897	435	669,408
Union..... 1880	39	7,673	.....	.....	158	41,270	168	105,550
..... 1887	20	3,343	.....	.....	244	49,635	217	118,744
Vermilion..... 1880	190	59,943	14	3,828	647	118,724	673	660,185
..... 1887	282	90,772	87	45,343	711	146,680	1,088	1,067,459
Wabash..... 1880	12	4,252	.....	.....	119	18,969	156	107,621
..... 1887	35	9,578	3	1,108	173	26,935	257	118,310
Warren..... 1880	39	18,507	2	736	336	120,951	285	445,655
..... 1887	27	15,731	1	1,134	342	127,892	345	454,408
Washington..... 1880	29	10,894	1	271	126	33,368	423	385,767
..... 1887	38	15,430	2	1,230	294	76,013	308	273,278
Wayne..... 1880	1	29	.....	.....	.....	.....	.....	.....
..... 1887	30	9,785	.....	.....	155	38,461	560	193,054
White..... 1880	24	4,844	.....	.....	347	79,721	426	275,917
..... 1887	60	21,186	.....	.....	542	108,500	494	249,920

*Table III.*—Concluded.

COUNTIES AND YEARS.	JUDGMENTS.		JUDGMENT NOTES.		CHATTEL MORTGAGES.		REAL ESTATE MORTGAGES.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Whiteside .....1880	71	\$17,470	11	\$12,522	533	\$142,286	532	\$615,088
1887	75	27,068	30	13,826	683	227,370	584	733,778
Will .....1880	145	38,997	17	19,531	317	131,633	708	1,042,417
1887	123	128,732	67	102,383	365	141,477	1,064	1,456,616
Williamson.....1880	18	4,990	.....	.....	115	20,026	123	35,581
1887	39	25,850	3	845	229	34,473	280	91,828
Winnebago .....1880	72	30,797	10	16,250	335	81,806	511	715,560
1887	57	20,917	20	27,781	513	146,806	567	734,083
Woodford.....1880	31	13,437	10	3,228	179	58,670	254	309,542
1887	35	7,517	22	10,765	124	59,680	232	342,425

## CHAPTER III.

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### LAND VALUES IN ILLINOIS.

The word land, as used in this connection, refers in general to agricultural land, and specifically to all lands not subdivided into lots and blocks. It does not refer to town property nor such suburban land as has been subdivided for urban uses; but embraces all tracts of land which are described in conveyances and records, or which are assessed for taxation, as acres, and not as lots. The term is consequently very nearly synonymous with farm land, the difference being that some small acre-tracts adjacent to towns or cities are not strictly parts of farms, nor devoted to agricultural uses. With these exceptions, the land referred to in the following statistics, is the farm land of the State, and as such, all valuations include the land, fences and buildings, or whatever improvements become a part of the realty and are bought and sold with it.

In considering the statistics of the private debt of communities, especially of that form of debt which is secured by mortgages on land, and which has recently occupied the attention of this bureau, it becomes important to have authoritative information as to the general value of the land in such communities. Likewise in all matters pertaining to the levy of taxes for public revenues, the true value being the ideal basis of apportionment, the ever recurring difficulty is to establish true values. Practically the decision of the matter rests with the local officers whose duty it is to make the assessment which is to determine the amount of local taxes. These officers are not only subject to errors of judgment, but are distinctly and necessarily under the influence of both personal and public incentives to obscure or modify true valuations, in accordance with certain precedents, or for various reasons, good and sufficient from their point of view.

The officers of the several United States censuses have also endeavored to obtain the true value of farms in connection with other agricultural statistics, and have published the results of these investigations in totals and averages by counties; but in this, their mode of procedure has been to ask for and accept the opinions of men who were supposed to know the value of certain farms, or the average value of farms within certain areas, usually not less than a township. Thus the existing statistics of land values in this State are really the statistics of opinions; in the absence of other authority these do service for the facts; in the main they may not vary widely from the facts, but of this there is no confirmation except in other opinions.

There is, however, one source of information on this subject which is exact, final and official, and that is the public records of deeds. There are hundreds of sales of farms and of farm lands made in every county in the course of any calendar year, which are *bona fide* transactions, conveying lands for their actual value as established by negotiations between buyers and sellers. To this source attention has been directed by the bureau with a view to obtain whatever statistics of fact might there be found on the subject of land values.

Some discrimination has certainly been necessary in scheduling the various recorded conveyances of land, some of which could contribute nothing but misinformation on this subject. Among these are deeds clearly made for a merely nominal consideration, as for "one dollar and other considerations;" certain deeds made in the partition of estates; sheriffs' deeds to land sold for delinquent taxes; certain quit-claim deeds made apparently to perfect titles, and deeds in which it has appeared that the real price paid for the land has been intentionally obscured, all of which have been rejected. On the other hand deeds made by Masters in Chancery under order of the court in foreclosure proceedings, and conveyances of land to railroad companies for right of way, and all transactions of a nature to develop market prices have been included in the long list of ordinary transfers of land from one owner to another.

In brief, an examination has been made of the records of all counties, and a transcript has been made of all deeds conveying acre-tracts of land apparently in good faith and for true

equivalent. There has been but little difficulty in distinguishing these, and compared with the whole number, those concerning which any question has arisen, have been very few. One class of cases it has been impossible always to detect, namely, those in which the real consideration has been intentionally obscured. The uniform testimony on this subject is, however, that such cases are infrequent in the transfer of farm lands and usually confined to speculative transactions in town property; also that it is entirely possible that fictitious prices may be either more or less than real prices and in the end offset each other. It is consequently believed that this element of possible error is too small to have any appreciable effect on averages deduced from any large number of sales.

The theory of this investigation is that the number of acres of land sold in any county in the course of any year, will be great enough and sufficiently distributed, and of such diversity of character and value as to be fairly representative of all the acres in the county. Whether this is true or not must be judged from the comprehensiveness of the facts obtained. If these afford a basis broad enough, then the average price per acre at which all the sales of a year are made, including good, bad and indifferent land, in all quantities, and at all prices, is a more authentic index of the actual value and average value of the land of the county than any man's estimate or any consensus of opinion.

The limitations of space do not admit of detailed tables showing the figures for every sale of land made in Illinois in the year 1887, though these are in the possession of the bureau and the publication of them would best illustrate to what degree the lands sold are truly typical of all lands. As this is inadmissible, however, the results of the investigation are presented in county totals with some analysis of them to show extremes of prices and sizes of tracts sold.

The first table gives the number of sales made, the number of acres sold, and the amounts for which they were sold, in each county. From these figures the average price per acre is computed and the average size of tract. In a subsequent table these general facts are subjected to an analysis showing the highest and lowest prices paid, and the largest and smallest number of acres sold. Finally the average value per acre of the land in

the several counties as determined from actual sales, is compared with the value per acre as assessed for purposes of taxation. These facts are shown alike for all counties; but as Cook county, in which the city of Chicago is situated, is a conspicuous exception to all other counties, some additional facts were drawn from the records of that county. This special work consisted of taking a list of the sales made in the calendar year 1880, as well as those for 1887, for purposes of comparison; and of grouping the sales made in both years by the town and range in which the land in each case was located, in order to show its proximity to the city of Chicago. Separate tables for Cook county, presenting these features, close the chapter.

#### SUMMARY OF RESULTS.

Some results of this investigation may be briefly stated. The whole number of sales of acre-tracts of land made in the State during the year 1887, was 26,771. By these conveyances, 1,669,867 acres were sold for the aggregate sum of \$54,880,270. This is equivalent to an average price of \$32.87 per acre, and an average tract of 62.38 acres to each conveyance. The highest price paid for any land was \$17,200 for one acre near Chicago, and the highest price for a tract of five acres or more, was \$8,000 an acre for five acres also near Chicago; the lowest price paid was 10 cents an acre for 48 acres in Monroe county. The largest tract sold was 2,580 acres in Wayne county, for \$7.75 an acre; the smallest parcel was one-tenth of an acre near Chicago at the rate of \$120 an acre. The whole number of acres assessed for taxation in Illinois in 1887, was 34,575,903; this number of acres includes all lands of every kind save such real estate as is described and assessed as lots, blocks or subdivisions in or near cities, towns or villages, and consequently covers the same territory embraced in this investigation. This number of acres, multiplied by the average value per acre as computed above, \$32.87, gives as the aggregate value of the lands of the State, as distinguished from lots, the sum of \$1,136,509,932. The assessed value of the same in 1887, was \$365,476,933, or 32.16 per cent. of the estimated true value. This result is a general confirmation, for the State at large, of the prevailing sentiment that lands in this State are assessed for taxation at about one-third their real value. To what extent this ratio is

maintained in the several counties will be disclosed upon an examination of the tables. From these, some specimen cases are cited.

Adams county is a large county on the Mississippi river, the seat of Quincy, an important city, the presence of which influences the value of land in its immediate vicinity. For the most part the land of this county is upland, rolling prairie, well timbered and watered, and well suited to agriculture; the low land along the river is fertile but subject to overflow, and much of it is too wet for cultivation; extremes of value consequently exist, and should be found in the records of deeds.

There were 493 transfers of land recorded in Adams county in 1887, conveying 25,028 acres, for the gross sum of \$770,870, or for an average consideration of \$30.80 an acre, the average size of tract sold being 50.77 acres. The highest price recorded was \$2,350 for one acre near Quincy; the lowest price, \$1.67 an acre for 60 acres; the largest tract sold was 590 acres, for \$5.44 an acre: the highest price paid for a tract of more than five acres was \$833.33 an acre for six acres.

The legitimacy of the average value per acre of land in this county, as derived from the foregoing figures, may be judged from the fact that 493 farms, or parts of farms, located in all parts of the county, and comprising 25,028 acres, were sold at prices ranging between the extremes mentioned. The assessed value of the land in this county for 1887 is \$13.17 an acre, or 42.76 per cent. of the estimated true value, \$30.80.

Alexander county is a small county at the southern extremity of the State, at the junction of the Ohio and Mississippi rivers; more than half of it is alluvial, bottom land, subject, more or less, to overflow; the higher lands are available for cultivation, though heavily timbered. In this county, 122 sales of land were recorded during the year, conveying 9,874 acres for a total sum of \$53,551, or an average of \$5.42 an acre, the average size of tract being 80.93 acres. The highest price paid was \$153.25 an acre for eight acres; the lowest price, 50 cents an acre for 200 acres; the largest tract sold was 827 acres at \$1.21 per acre; the smallest tract, one acre for \$35. The land in this county was assessed for taxation in 1887 at an average value of \$5.12 an acre, or 94.46 per cent. of the true value, \$5.42, as indicated by this record of lands sold.

Cook county, the seat of the city of Chicago, presents the widest contrast in every respect with the foregoing. In this county, 624 land sales were registered during 1887, by which 22,943 acres were sold for \$7,045,624, or for an average of \$307.10 an acre; the average size of tract was 36.77 acres. The highest price for which land was sold in this county was \$17,200 for one acre; the highest price for five acres or more was \$8,000 an acre for five acres; the lowest price was 25 cents an acre for 120 acres, and the next, above one dollar, was \$5 an acre for 100 acres; the largest tract sold was 440 acres at \$147.50 an acre; the smallest tract, one-tenth of an acre at the rate of \$120 an acre. Land in Cook county was assessed for taxation in 1887 at an average value of \$22.31 an acre, or for 7.26 per cent. of \$307.10, the average price at which 22,943 acres, in all parts of the county, were sold during the same year, the range of prices being from \$5 to \$8,000 an acre.

Bureau county is an agricultural county of wealth and importance in the northern part of the State, in which both the land and the improvements are good, and conditions are measurably uniform. In this county 273 sales of land were made during the year, conveying 19,623 acres, for the sum of \$887,325, or for an average of \$45.22 an acre, the average number of acres to each conveyance being 71.88 acres. The highest price paid for five acres or more was \$250 an acre for 20 acres; the lowest price was \$4.30 an acre for 80 acres; the largest tract sold was 1,019 acres for \$72.34 an acre; the smallest tract sold was one acre for \$1,000. The average value of land in this county as assessed for taxation in 1887 was \$13.54 an acre, or 29.94 per cent. of \$45.22, the average true value as deduced from the records of land sales.

In Vermilion county there were 428 sales of land in 1887, involving a transfer of 21,155 acres, which were sold for \$720,834, or for \$34.07 an acre, and the average tract sold was 49.43 acres. The highest price paid was \$90.91 an acre for 11 acres; the lowest, \$6 an acre for five acres; the largest tract sold was 320 acres for \$40 an acre, and the smallest, one acre for \$52. The assessment in this case for the same year was \$11.99 per acre, or 35.19 per cent. of the estimated true value.

These cases sufficiently illustrate what may be read from the following tables in regard to every county.



Of the 102 counties in the State, 45 show values per acre more than the average, \$32.87, and 57 show values less than the average.

The following ten counties contain lands of the greatest average value: Cook, \$307.10; DuPage, \$92.07; Lake, \$66.18; Kane, \$62.28; Will, \$61.46; Peoria, \$52.44; Winnebago, \$52.13; Kendall, \$49.58; Macon, \$48.28; McLean, \$46.50; all of these being central and northern counties.

The following ten counties contain land of the least average value: Alexander, \$5.42; Pope, \$5.63; Johnson, \$6.28; Hardin, \$6.42; Massac, \$8.05; Pulaski, \$8.28; Saline, \$8.41; Wayne, \$9.12; Williamson, \$9.15; Hamilton, \$9.52; all of these being situated in the southern extremity of the State.

The greatest number of acres sold in any county during the year, was 36,343 in Livingston county; the next in order being 35,682 acres in Wayne county, 35,453 in Fulton county, 33,749 in Pike county, 33,107 in Champaign county, 32,608 in Peoria county, and 30,049 in Macoupin county.

The greatest number of sales recorded was in Cook county, 624, and this was followed by Fulton county with 578; Peoria, 564; Pike, 501; Hancock, 496; Adams, 493; White, 491; and ten others with over 400 each. The smallest number of sales found in any county was 63 in Grundy county, though there were only 66 in Putnum, 74 in Kendall, 85 in Calhoun, 105 in Scott, all of which are, however, smaller counties than Grundy.

Although the aggregate of the assessed value of the land in all counties is equal, as has been shown, to 32.16 per cent. of the true value as determined from the records of actual sales, an examination of Table III, will show extreme variations from this percentage in certain counties. The most striking instances of this have already been referred to as found in Cook county, and in Alexander county. In the former the assessed value per acre appears as only 7.26 per cent. of the estimated true value, and in the latter the assessment is 94.46 per cent. of the estimated value.

In 59 counties the assessment is substantially one-third of the selling price, that is, the variation is not more than 5 per cent. either way from the average for the state, 32.16 per cent.

In the following counties the assessment is the smallest percentage of true value: Cook, 7.46 per cent.; Gallatin, 11.97; Cumberland, 18.27; Du Page, 19.66; Lake, 19.78; Clark, 21.71; Jefferson, 21.98; Crawford, 22.17; White, 22.19; Ford, 22.21; Will, 23.35; Kankakee, 23.41.

In the following counties the assessed valuation is the largest percentage of the real value: Alexander, 94.46; Hardin, 61.53; Pulaski, 57.25; St. Clair, 53.66; Massac, 50.93; Monroe, 46.50; Edwards, 45.27; Clay, 44.27; Williamson, 43.17; Wabash, 42.89; Morgan, 42.69; Schuyler, 42.37; Knox, 40.59; Sangamon, 40.38. The percentages of all other counties range between those of these two groups.

#### THE COOK COUNTY TABLES.

There are two sets of tables for Cook county alone, one made up from the records of 1880, and one from those of 1887. For both years the sales are grouped by Town and Range, so as to show the relative situation of the lands sold, and the analysis as to extremes of prices and size of tracts, is made for each group. The general results, or summaries of the records, for the two periods are as follows:

YEARS.	Number of sales made.	Aggregate amount of sales.	Number of acres sold.	Average price paid per acre.	Average size of tract—acres.	Whole number of assessed acres in county.	Computed value of whole number of acres in the county.
1880 .. ....	542	\$3,104,645	24,238.34	\$128.09	44.72	512,842	\$65,689,362
1887 .. ....	624	7,045,624	22,942.67	307.10	36.77	494,723	151,929,433

These figures are noticeable not only for their contrasts, but for the reason that several of the larger totals appear in the earlier year. The greater number of acres was sold in 1880, though the number of sales in that year was much smaller. The average size of tract sold was also somewhat greater in 1880. The whole number of assessed acres in 1880 was 18,119 more than in 1887. The inference is that this number of acres was, during the years intervening between 1880 and 1887, absorbed in the suburban subdivisions about Chicago, and that the number of assessed lots in the county has been correspondingly increased. In point of fact it is found by reference to the reports of the State Board of Equalization that the number of

lots assessed in Cook county in 1887 was 78,157 greater than in 1880. These additional lots would be equivalent in area to the deficiency in acres, provided there were only an average of four and a third lots formed from each acre.

The most conspicuous and interesting feature of this comparison is, however, the evidence it affords of the material increase in the value of the land of the county during seven years. Although the number of acres sold in the more recent year is considerably less, the amount for which they were sold was more than double the amount of the sales in 1880, both in the aggregate and in the average price per acre. The total value of the land of the county, computed on this basis, increased 131 per cent. between the years 1880 and 1887.

The details of the land business in Cook county during the two years are found in the respective tables, showing the amounts sold and aggregate and average prices in each Town and Range. In 1887, the greatest number of acres, 8,773, was sold in Town 38, Ranges 12, 13 and 14. In this region, 1,573 acres were sold for \$2,038,797, or at an average rate of \$1,295.88 an acre. In the same territory in 1880, 1,351 acres were sold at an average price of \$372.84 an acre. In 1880 the most land was sold in Town 37, Range 14, namely, 3,036 acres, at an average price of \$244.43 an acre. Seven years later 745 acres were sold in the same locality at an average price of \$412.96 an acre. In Town 38, Range 12, in 1880, 1,190 acres were sold at an average of \$69.89 an acre, and in 1887, 3,057 acres were sold in the same region for \$204.61 an acre.

Comparisons of this kind could be multiplied, but they may be observed by reference to the tables for each of the thirty-three geographical divisions of the county. In every instance, save one, a material increase in value is indicated. The exception is in Town 35, Range 13, in which the average value has apparently declined from \$49.76 to \$41.61 per acre. There is, of course, no identification of acres possible in this partial description, and it is not the object to observe specific values or changes in value as much as general values for extended areas. In this county the lands sold are located with greater particularity because their value depends more upon their place than in any other county.

For this reason also the extremes of prices in this county are very marked, the actual range of recorded prices being from 25 cents an acre to \$17,200 an acre in 1887, and from 53 cents an acre to \$10,500 an acre in 1880. These minimum prices will doubtless arrest the attention more quickly than the maximum prices, and the question will arise at once whether they truly represent any actual values. It is probably to be expected that nominal and fictitious values will appear in the records of this county more frequently than in any other, and many deeds in which the consideration has been clearly nominal have been omitted from the Cook county schedules; others showing a very trifling consideration have been retained tentatively, in order that their influence on average values might not be lost if it should prove that the land was practically of no value. Among the deeds of 1887 thus retained, are three; one for 10 acres at 55 cents an acre, one for 40 acres at 25 cents an acre, and one for 80 acres at 25 cents an acre. These tracts all lie in the region of Calumet lake and river, where the land is very low, level and wet. Among the deeds of 1880 is one for 80 acres, in the same region, at 75 cents an acre; one for 160 acres at 53 cents an acre, in the north-eastern corner of the county where there are also some extended marshes; and another for 80 acres in the south-eastern township for \$1.25 an acre. If these cases are omitted, the average values of the lands in the towns in which they are situated, and in the county, will be slightly, though not materially, increased.

Between the extremes mentioned the tables will disclose a great variety of values in different parts of the county, for both years, and show that in general the value of the land increases with its proximity to the city of Chicago.

For the value of agricultural lands proper in Cook county, reference should be made to the sales and prices in Towns 35, 36 and 37, and in Ranges 11, 12, 13, and parts of 14 and 15; also in Towns 40, 41 and 42, Ranges 9, 10, 11, 12, and part of 13. In the year 1880, there was sold within these limits a total of 16,076 acres for \$980,145, or an average of \$60.97 an acre. In the year 1887, the whole number of acres sold in the same territory was 13,695 for a total sum of \$1,623,037, or \$118.50 an acre.

The average size of tract, also, varies quite widely in Cook county, becoming smaller in localities where the land is most valuable. In the deed records of 1887, the smallest tract of land described as though unsubdivided was one-tenth of an acre, which was sold for \$12; one-quarter of an acre was sold, in one instance, for \$2,000; in another for \$1,000; a parcel of land described as one-half an acre was sold for \$150, and three-quarters of another acre was sold for \$46.20. Several single acres were sold for large sums, which appear in the table, the highest of which was \$17,200. The fact that these parcels of land are described as acres or parts of acres, and not as lots or parts of any subdivision, has governed, in giving them a place among the sales of lands as distinguished from lots; the inference is that they are assessed as lands. The largest tract sold in this year was 440 acres at \$62.50 an acre.

In 1880, the largest tract was 560 acres, which was sold at \$7.14 an acre; the smallest, a quarter of an acre, which was sold for \$300. The maximum price paid in this year was \$10,500 an acre for ten acres.

All details relating to this county, and to all counties, not herein mentioned, may be obtained upon an examination of the following tables:

TABLE I.—*The Selling Value of Lands in Illinois, as shown by the records of deeds made for acre-tracts of land (not including town lots, blocks, or subdivisions) in each county of the State, during the calendar year 1887.*

COUNTIES.	Number of sales made.	Aggregate amount of sales.	Number of acres sold.	Average price paid per acre.	Average size of tract—acres.	Whole number of assessed acres in each county, and the State.	Computed value of all lands in each county, and the State.
The State.....	26,771	\$54,880,270	1,669,867	\$32 87	62.38	34,575,908	\$1,136,509,932
Adams.....	493	\$770,870	25,208	\$30 80	50.77	527,584	\$16,249,587
Alexander.....	122	53,551	9,874	5 42	80.93	113,960	617,663
Bond.....	199	245,335	11,275	21 76	56.66	240,068	5,223,662
Boone.....	120	357,901	8,661	41 32	72.17	178,104	7,359,257
Brown.....	158	185,387	8,298	22 34	52.52	189,919	4,242,790
Bureau.....	273	887,325	19,623	45 22	71.88	548,866	24,819,721
Calhoun.....	85	96,853	7,159	13 55	84.22	163,599	2,213,494
Carroll.....	151	358,946	9,878	36 34	65.42	286,552	10,413,300
Cass.....	152	444,306	14,099	31 51	92.76	238,405	7,512,142
Champaign.....	403	1,269,986	33,107	38 36	82.15	626,275	24,023,909
Christian.....	194	420,782	10,682	39 39	55.06	448,199	17,654,559
Clark.....	276	258,185	14,154	18 24	51.28	315,759	5,759,444
Clay.....	312	221,769	20,659	10 73	66.21	284,341	3,050,979
Clinton.....	151	218,631	10,736	19 89	71.10	308,125	6,128,606
Coles.....	243	406,223	12,504	32 49	51.41	321,838	10,456,517
Cook.....	624	7,045,624	22,943	\$307 10	36.77	494,723	151,929,433
Crawford.....	262	332,570	17,351	19 17	61.53	269,907	5,174,117
Cumberland.....	192	171,084	9,329	18 34	48.59	219,398	4,023,759
DeKalb.....	287	645,310	15,194	42 47	52.09	397,956	16,901,191
DeWitt.....	128	306,318	7,229	42 37	56.48	251,286	10,616,988
Douglas.....	207	542,546	13,702	39 60	66.19	262,458	10,393,337
DuPage.....	354	528,198	5,737	92 07	26.20	205,220	18,894,605
Edgar.....	253	641,084	18,641	34 39	73.08	896,497	13,635,532
Edwards.....	202	162,708	10,131	16 06	50.11	131,944	2,247,501
Effingham.....	240	155,610	10,418	14 94	42.31	289,647	4,327,326
Fayette.....	320	348,002	20,998	16 38	65.43	427,664	7,005,186
Ford.....	111	369,781	10,567	34 99	95.11	304,736	10,662,713
Franklin.....	395	268,250	24,346	11 02	61.64	253,521	2,793,801
Fulton.....	578	942,274	35,453	26 58	59.61	556,332	14,286,606
Gallatin.....	237	337,817	14,120	23 22	59.58	200,680	4,659,790
Greene.....	182	399,858	12,716	31 44	69.87	341,409	10,733,899
Grunty.....	63	155,324	3,713	41 83	58.94	268,021	11,211,318
Hamilton.....	393	240,784	25,290	9 52	61.35	270,989	2,579,815
Hancock.....	496	805,392	26,468	30 43	53.16	485,893	14,785,907
Hardin.....	124	46,485	7,245	6 42	58.43	108,716	697,957
Henderson.....	150	363,490	13,734	26 47	91.56	238,845	6,332,227
Henry.....	225	586,525	13,491	43 48	60.50	515,427	22,410,766
Iroquois.....	229	901,309	18,666	32 21	81.51	704,019	22,676,452
Jackson.....	317	210,581	20,150	11 94	63.56	339,777	4,056,937
Jasper.....	339	262,935	18,761	14 01	55.37	310,900	4,355,709
Jefferson.....	438	294,077	21,681	13 56	49.50	350,616	4,754,353
Jersey.....	153	343,253	10,754	31 92	70.29	231,144	7,378,116
JoDavies.....	196	337,400	14,121	27 43	72.05	378,997	10,395,888
Johnson.....	286	113,841	18,121	6 23	63.39	208,788	1,311,189
Kane.....	163	525,523	8,438	62 28	51.77	320,916	19,986,648

Table I.—Concluded.

COUNTIES.	Number of sales made.	Aggregate amount of sales.	Number of acres sold.	Average price paid per acre.	Average size of tract—acres.	Whole number of assessed acres in each county, and the State.	Computed value of all lands in each county, and the State.
Kankakee.....	162	\$488,620	14,613	\$33 44	90.20	420,344	\$14,056,393
Kendall.....	74	327,342	6,602	49 58	89.22	203,136	10,071,483
Knock.....	351	726,683	22,950	31 66	65.38	448,484	14,199,003
Lake.....	175	553,182	8,449	66 18	48.28	282,765	18,713,388
LaSalle.....	443	1,202,157	27,797	43 25	62.72	710,289	30,719,999
Lawrence.....	209	186,016	12,270	15 16	58.71	230,445	3,493,546
Lee.....	194	589,978	18,833	31 33	97.08	477,226	14,951,491
Livingston.....	431	1,397,107	36,343	38 44	83.74	655,812	25,130,153
Logan.....	247	745,237	19,593	38 04	79.32	390,744	14,863,902
Macoupin.....	180	537,966	11,143	48 28	61.35	366,719	17,705,193
Macoupin.....	425	817,182	30,049	28 19	70.70	536,527	15,138,153
Madison.....	206	836,654	20,920	39 99	70.68	447,664	17,902,083
Marion.....	235	175,323	11,504	15 24	49.38	346,840	5,285,842
Marshall.....	116	368,398	9,673	38 09	83.39	246,926	9,405,411
Mason.....	203	368,263	14,534	25 34	71.60	317,738	8,811,681
Mascoutah.....	185	93,125	11,565	8 05	62.51	145,174	1,168,651
McDonough.....	287	573,311	17,331	31 97	62.48	364,269	11,645,680
McHenry.....	193	638,976	15,397	41 67	79.47	383,588	15,975,778
McLean.....	413	1,342,065	28,856	46 81	69.87	739,133	34,377,076
Menard.....	153	275,396	7,283	37 81	54.76	198,959	7,522,640
Mercer.....	200	595,962	17,256	34 54	86.28	347,998	12,019,678
Monroe.....	126	175,451	11,162	15 72	88.59	237,622	3,735,418
Montgomery.....	285	543,638	19,328	28 13	67.82	440,625	12,394,781
Morgan.....	302	729,150	16,789	43 43	55.59	353,352	15,346,077
Moultrie.....	260	499,697	16,412	30 45	82.06	216,495	6,592,273
Ogle.....	285	740,270	17,431	42 47	60.85	479,202	20,851,709
Peoria.....	564	1,710,079	32,608	52 44	57.82	390,854	20,496,384
Perry.....	271	238,773	16,761	14 25	61.85	255,819	3,645,420
Piatt.....	137	386,294	9,975	38 73	72.81	275,167	10,657,218
Pike.....	501	905,341	33,749	26 83	67.36	510,034	13,684,212
Pope.....	233	90,967	16,165	5 63	69.38	231,394	1,302,748
Pulaski.....	192	81,829	9,882	8 28	51.47	108,746	900,417
Putnam.....	66	142,992	3,999	35 76	60.59	106,019	3,791,239
Randolph.....	254	408,243	20,771	19 66	81.74	350,296	6,886,819
Richland.....	238	236,423	14,209	16 64	59.70	224,101	3,729,041
Rock Island.....	182	378,437	11,200	33 79	61.54	266,135	8,992,702
Saline.....	379	172,277	20,494	8 41	54.07	236,100	1,985,601
Sangamon.....	396	854,436	20,059	42 60	56.64	550,750	24,461,950
Schuyler.....	278	376,217	18,576	20 25	66.82	277,654	5,622,494
Scott.....	105	218,691	5,971	36 62	56.87	159,485	5,840,341
Shelby.....	389	557,402	22,679	24 58	58.30	480,494	11,810,543
Stark.....	129	375,704	8,108	46 34	62.85	180,948	8,385,130
St. Clair.....	167	564,775	12,339	45 77	73.89	413,717	18,935,827
Stephenson.....	347	631,889	15,446	40 91	44.51	354,600	14,506,686
Tazewell.....	444	1,159,743	28,523	40 66	64.24	411,381	16,726,751
Union.....	177	121,932	10,631	11 47	58.54	227,973	2,614,850
Vermilion.....	428	720,834	21,155	34 07	49.43	564,183	19,221,715
Wabash.....	171	176,889	9,532	18 56	56.07	137,515	2,552,278
Warren.....	142	292,824	8,589	34 09	60.41	338,406	11,536,261
Washington.....	294	407,188	19,954	20 41	67.87	349,202	7,127,213
Wayne.....	472	325,394	35,682	9 12	75.60	445,634	4,064,183
White.....	491	406,375	30,056	13 52	61.21	311,735	4,214,657
Whiteside.....	238	573,629	17,629	32 54	74.07	417,501	13,585,483
Will.....	273	1,072,805	17,454	61 46	63.93	525,929	32,323,596
Williamson.....	448	212,421	23,207	9 15	51.80	264,874	2,423,597
Winnebago.....	246	616,869	11,834	52 13	48.11	318,432	16,593,860
Woodford.....	212	559,423	12,824	43 62	60.49	397,138	14,705,960

TABLE II.—*The highest and lowest prices paid for land in Illinois in the year 1887, with the number of acres sold at the respective prices.*

COUNTIES.	Maximum price paid per acre, for tract of five, or more acres.	Number of acres sold at maximum price.	Minimum price paid per acre.	Number of acres sold at minimum price.	Maximum size of tract, acres.	Price paid per acre for maximum tract.	Minimum size of tract, acres	Highest price paid per acre for minimum size of tract.
The State.....	\$8,000 00	5	\$0 10	48	2,580	\$7 75	.....	.....
Adams.....	\$833 33	8	\$1 67	60	590	\$5 44	1	\$2,350 00
Alexander.....	153 25	8	50	200	827	1 21	1	35 00
Bond.....	87 50	80	4 00	20	419	10 33	3	29 00
Boone.....	500 00	10	1 00	10	455	43 08	1	2,500 00
Brown.....	110 00	5	2 05	120	340	8 82	1	400 00
Bureau.....	250 00	20	4 30	80	1,019	72 34	1	1,000 00
Calhoun.....	125 00	8	2 31	130	320	7 81	1	25 00
Carroll.....	971 93	14	1 25	40	380	21 05	1	750 00
Cass.....	161 29	31	3 13	16	484	16 53	1	40 00
Champaign.....	100 00	6	10 00	10	400	50 00	1	45 00
Christian.....	140 00	5	7 50	20	360	33 23	5	40 00
Clark.....	50 00	94	2 15	46	216	10 19	2	25 00
Clay.....	41 67	120	50	80	650	13 85	1	80 00
Clinton.....	125 00	80	1 00	40	673	17 83	2	475 00
Coles.....	75 00	5	7 50	40	495	10 90	2	25 00
Cook.....	8,000 00	5	25	120	440	147 50	c	120 00
Crawford.....	55 00	5	1 38	80	630	7 94	5	55 00
Cumberland.....	50 00	120	3 00	40	200	12 00	5	45 00
DeKalb.....	442 86	7	2 11	19	300	48 60	1	1,200 00
DeWitt.....	62 50	80	8 53	3	360	43 89	2	40 00
Douglas.....	92 86	14	11 25	40	1,080	26 85	1	80 00
DuPage.....	880 00	5	16 67	3	354	87 64	1	2,500 00
Edgar.....	100 00	5	3 75	40	547	25 14	2	25 00
Edwards.....	140 00	20	1 38	40	420	14 29	1	350 00
Effingham.....	50 00	40	2 00	25	740	10 11	2	20 00
Fayette.....	180 00	40	2 37	19	960	20 83	1	40 00
Ford.....	330 00	5	7 50	40	640	12 89	1	700 00
Franklin.....	67 57	74	50	60	1,072	25 65	1	2,500 00
Fulton.....	200 00	60	1 00	841	1,470	9 00	1	800 00
Gallatin.....	100 00	5	44	80	520	44 23	1	200 00
Greene.....	110 00	15	3 13	40	1,310	31 71	1	40 00
Grundy.....	100 00	160	7 75	40	280	24 29	2	225 00
Hamilton.....	100 00	5	65	40	440	25 45	1	2 00
Hancock.....	285 71	7	2 50	4	400	27 50	1	700 00
Hardin.....	25 00	60	63	40	300	3 53	1	150 00
Henderson.....	1,410 00	5	1 25	80	360	38 88	1	150 00
Henry.....	a 310 00	10	1 79	28	320	46 87	1	875 00
Iroquois.....	184 00	5	5 00	3	653	20 00	1	1,300 00
Jackson.....	b 386 36	22	1 00	37	400	7 50	1	400 00
Jasper.....	50 00	320	1 00	40	320	50 00	2	25 00
Jefferson.....	620 00	5	63	200	480	5 83	1	1,800 00
Jersey.....	150 00	9	3 75	160	898	18 93	6	150 00
JoDaviss.....	600 00	10	1 00	50	325	30 77	1	500 00
Johnson.....	100 00	5	77	260	410	14 63	1	600 00
Kane.....	666 67	9	10 00	10	236	59 07	1	5,200 00



Table II.—Concluded.

COUNTIES.	Maximum price paid per acre, for tract of five, or more acres.	Number of acres sold at maximum price.	Minimum price paid per acre.	Number of acres sold at minimum price.	Maximum size of tract, acres.	Price paid per acre for maximum tract.	Minimum size of tract, acres.	Highest price paid per acre for minimum size of tract.
Kankakee.....	\$100 00	10	\$6 25	46	640	\$30 00	1	\$200 00
Kendall.....	122 50	10	12 50	8	400	45 00	1	700 00
Knox.....	650 00	5	1 25	80	500	20 44	1	6,000 00
Lake.....	360 00	5	8 34	6	449	254 14	1	4,000 00
LaSalle.....	300 00	6	2 50	10	500	35 08	1	1,800 00
Lawrence.....	60 34	58	1 25	70	380	14 47	1	33 00
Lee.....	141 38	13	16	32	610	15 63	1	1,000 00
Livingston.....	800 00	10	6 25	320	944	31 77	1	500 00
Logan.....	400 00	5	3 85	40	1,700	41 00	1	50 00
Macon.....	185 00	54	2 50	20	366	61 75	3	18 33
Macoupin.....	1,200 00	5	2 50	40	1,399	7 15	1	1,515 00
Madison.....	112 08	50	5 36	28	356	42 13	1	25 00
Marion.....	333 33	12	63	40	480	20 83	1	200 00
Marshall.....	520 00	10	3 05	164	320	46 88	1	750 00
Mason.....	211 54	26	1 75	35	760	11 15	1	100 00
Massac.....	100 00	5	50	80	400	1 11	1	575 00
McDonough.....	185 19	27	1 89	55	520	13 46	1	600 00
McHenry.....	105 00	20	4 25	320	695	15 11	1	2,000 00
McLean.....	120 00	5	12 50	10	640	50 00	1	50 00
Menard.....	195 00	40	3 00	20	235	22 98	1	200 00
Mercer.....	350 00	20	88	80	473	87 74	1	675 00
Monroe.....	137 50	40	10	48	802	10 60	1	600 00
Montgomery.....	72 73	11	3 27	49	563	31 14	2	26 00
Morgan.....	450 00	10	2 00	10	447	60 00	1	200 00
Moultrie.....	55 56	9	4 00	35	400	38 02	2	25 00
Ogle.....	187 50	40	1 25	60	314	86 11	1	1,500 00
Peoria.....	546 88	320	1 25	40	400	187 50	1	350 00
Perry.....	80 00	40	50	120	335	44 89	1	625 00
Piatt.....	113 33	45	10 83	240	718	39 63	2	25 00
Pike.....	d 2,600 00	40	3 13	40	585	20 51	1	100 00
Pope.....	60 00	5	48	40	300	10 00	2	50 00
Pulaski.....	178 57	14	38	40	320	1 56	1	120 00
Putnam.....	240 00	5	28	360	360	28	1	80 00
Randolph.....	135 00	20	68	40	502	99 60	1	1,175 00
Richland.....	55 00	80	2 94	34	400	40 06	4	169 25
Rock Island.....	583 34	6	1 64	160	400	20 00	1	1,250 00
Saline.....	102 86	35	25	120	240	83 33	1	175 00
Sangamon.....	235 29	34	6 25	20	480	33 19	1	2,878 00
Schuyler.....	410 71	7	1 00	5	343	37 90	1	300 00
Scott.....	315 00	20	2 25	40	640	9 81	1	350 00
Shelby.....	70 00	10	3 13	40	720	34 72	2	15 00
Stark.....	275 00	10	6 67	18	310	45 87	1	450 00
St. Clair.....	306 12	196	7 50	20	320	78 13	4	25 00
Stephenson.....	571 43	7	98	306	306	98	1	2,500 00
Tazewell.....	350 00	20	1 20	35	330	60 01	1	450 00
Union.....	287 50	8	48	520	552	5 43	1	60 00
Vermilion.....	90 91	11	6 00	5	320	40 00	1	52 00
Wabash.....	334 34	6	2 00	20	1,363	7 85	1	270 00
Warren.....	160 00	40	1 23	160	320	5 47	1	400 00
Washington.....	100 00	8	83	120	440	2 27	1	1,000 00
Wayne.....	85 71	7	50	40	2,580	7 75	1	250 00
White.....	192 31	26	1 25	80	600	20 00	1	300 00
Whiteside.....	265 13	38	1 10	40	800	15 63	1	1,350 00
Will.....	1,000 00	10	5 26	19	1,440	69 44	1	1,250 00
Williamson.....	100 00	5	38	130	660	15 15	1	350 00
Winnebago.....	666 67	6	4 08	40	320	54 58	1	1,350 00
Woodford.....	166 67	6	1 33	6	240	20 83	1	200 00

a Tile works included.

b Property of Iron Company including furnaces, machinery, tools, tenement houses, etc.

c One tenth of an acre.

d Including woolen-mill plant.

TABLE III.—*The Value of Lands in Illinois, as shown by the records of land sales, compared with the values assessed for purposes of taxation, by counties.*

COUNTIES.	Estimated true value per acre 1887.	Assess'd value per acre 1887.	Percentage of true value of assess'd value.	COUNTIES.	Estimated true value per acre 1887.	Assess'd value per acre 1887.	Percentage of true value of assess'd value.
The State .....	\$32 87	\$10 57	32.16				
Adams.....	\$30 80	\$13 17	42.76	Lee.....	\$31 33	\$11 85	37.82
Alexander.....	5 42	5 12	94.46	Livingston.....	38 44	11 38	29.60
Bond.....	21 76	8 10	37.22	Logan.....	38 04	14 29	37.57
Boone.....	41 32	13 14	31.80	Macon.....	48 28	16 06	33.26
Brown.....	22 34	7 12	31.87	Macoupin.....	28 19	8 76	31.07
Bureau.....	45 22	13 54	29.94	Madison.....	39 99	15 12	37.81
Calhoun.....	13 53	4 92	36.36	Marion.....	15 24	5 94	38.97
Carroll.....	36 34	11 45	31.51	Marshall.....	38 00	13 70	35.97
Cass.....	31 51	10 00	31.74	Mason.....	25 34	7 29	28.77
Champaign.....	38 36	11 53	30.06	Massac.....	8 05	4 10	50.93
Christian.....	39 39	11 80	29.96	McDonough.....	31 97	12 73	39.82
Clark.....	18 24	3 96	21.71	McHenry.....	41 67	12 01	28.82
Clay.....	10 73	4 75	44.27	McLean.....	46 51	15 18	32.64
Clinton.....	19 89	6 67	33.53	Menard.....	37 81	14 95	39.54
Coles.....	32 49	10 56	32.50	Mercer.....	34 54	11 66	33.76
Cook.....	307 10	22 31	7.26	Monroe.....	15 72	7 81	46.50
Crawford.....	19 17	4 25	22.17	Montgomery.....	28 13	9 99	35.51
Cumberland.....	18 34	3 35	18.27	Morgan.....	43 43	18 53	42.69
DeKalb.....	42 47	13 41	31.58	Moultrie.....	30 45	9 14	30.02
De Witt.....	42 37	12 00	28.32	Ogle.....	42 47	12 82	30.19
Douglas.....	39 60	10 29	25.98	Peoria.....	52 44	17 00	32.42
DuPage.....	32 07	13 10	19.66	Perry.....	14 25	5 22	36.63
Edgar.....	34 39	10 27	29.86	Platt.....	38 73	12 77	32.97
Edwards.....	16 06	7 27	45.27	Pike.....	26 58	8 92	33.25
Efingham.....	14 94	4 37	33.26	Pope.....	5 63	2 36	41.92
Fayette.....	16 38	4 07	24.85	Pulaski.....	8 28	4 74	57.25
Ford.....	34 99	7 77	22.21	Putnam.....	35 76	12 29	34.37
Franklin.....	11 02	2 61	23.68	Randolph.....	19 66	6 44	32.25
Fulton.....	26 58	10 13	38.49	Richland.....	16 64	4 92	29.57
Gallatin.....	23 22	3 78	11.97	Rock Island.....	33 79	10 19	30.16
Greene.....	31 44	10 71	34.07	Saline.....	8 41	2 77	32.94
Grundy.....	41 83	11 00	26.30	Sangamon.....	42 60	17 20	40.38
Hamilton.....	9 52	2 69	28.26	Schuyler.....	20 25	8 58	42.37
Hancock.....	30 43	12 08	39.70	Scott.....	36 63	10 81	29.52
Hardin.....	6 42	3 35	61.53	Shelby.....	24 58	9 16	37.26
Henderson.....	26 47	8 04	30.78	Stark.....	46 34	16 05	34.64
Henry.....	43 48	13 79	31.72	St. Clair.....	45 77	24 55	53.66
Iroquois.....	32 21	9 37	29.90	Stephenson.....	40 91	15 11	36.98
Jackson.....	11 94	3 80	31.83	Tazewell.....	40 66	12 99	31.95
Jasper.....	14 01	3 54	25.27	Union.....	11 47	4 30	37.49
Jefferson.....	13 56	2 98	21.98	Vermilion.....	34 07	11 99	35.19
Jersey.....	31 92	10 05	31.48	Wabash.....	18 56	7 96	42.89
Jo Daviess.....	27 43	7 53	27.49	Warren.....	34 09	13 97	40.98
Johnson.....	6 28	2 54	40.45	Washington.....	20 41	7 13	34.93
Kane.....	62 28	16 40	26.33	Wayne.....	9 12	2 66	29.17
Kankakee.....	33 44	7 83	23.41	White.....	13 52	3 00	22.19
Kendall.....	49 58	13 18	26.58	Whiteside.....	32 54	11 73	36.05
Knox.....	31 66	13 85	40.59	Will.....	61 46	14 35	23.35
Lake.....	66 18	13 09	19.78	Williamson.....	9 15	3 95	43.17
LaSalle.....	43 25	15 36	35.51	Winnebago.....	52 13	14 49	27.80
Lawrence.....	15 16	4 22	27.84	Woodford.....	43 62	14 67	33.60

TABLE IV.—*The Selling Value of Lands in Cook county; as shown by the records of deeds, made for acre-tracts of land (not including lots, blocks or subdivisions) in each Town and Range of the County, during the calendar year 1887.*

Town number.	Range number.	Number of sales made.	Aggregate amount of sales.	Number of acres sold.	Average price paid per acre.	Average size of tract—acres.	Whole number of assessed acres in the county.	Computed value of all lands in the county.
The County.....		624	\$7,045,621	22,942.67	\$307 10	36.77	494,723	\$151,929,433
35	13	10	\$33,500	805.00	\$41 61	80.50	.....	.....
	14	12	65,791	864.75	76 08	72.06	.....	.....
36	12	10	55,090	919.25	59 09	91.98	.....	.....
	13	15	42,333	533.17	80 52	35.54	.....	.....
	14	27	86,595	663.08	130 60	21.56	.....	.....
	15	8	42,990	307.00	140 33	38.38	.....	.....
37	11	4	24,375	113.25	215 23	28.35	.....	.....
	12	5	16,750	375.00	44 67	75.00	.....	.....
	13	16	132,950	664.00	227 65	36.50	.....	.....
	14	27	307,762	745.25	412 96	27.60	.....	.....
	15	4	9,756	75.50	129 22	18.89	.....	.....
38	12	29	625,562	3,057.31	204 61	105.46	.....	.....
	13	87	1,689,775	4,143.00	407 86	47.62	.....	.....
	14	75	2,038,797	1,573.29	1,295 88	20.98	.....	.....
	15	1	8,000	10.00	800 00	.....	.....	.....
39	12	14	333,238	746.26	446 54	53.30	.....	.....
	13	60	222,525	338.25	657 87	56.38	.....	.....
	14	5	38,975	64.58	603 52	12.92	.....	.....
40	9	1	600	40.00	15 00	.....	.....	.....
	12	9	40,894	261.25	156 54	29.03	.....	.....
	13	40	569,768	1,330.31	428 30	33.25	.....	.....
	14	11	156,347	233.50	669 58	21.23	.....	.....
41	9	10	28,034	454.75	61 65	45.48	.....	.....
	10	3	13,500	212.00	63 68	70.67	.....	.....
	11	16	33,519	583.53	57 44	36.47	.....	.....
	12	12	39,413	455.08	86 63	37.92	.....	.....
	13	33	93,837	631.97	148 49	19.15	.....	.....
	14	8	57,400	73.25	783 62	9.16	.....	.....
42	9	7	15,800	355.50	44 44	50.79	.....	.....
	10	13	32,462	617.41	52 58	47.49	.....	.....
	11	15	47,677	676.60	70 47	45.11	.....	.....
	12	18	39,092	691.75	56 51	38.43	.....	.....
	13	19	101,917	327.83	310 98	16.36	.....	.....

**TABLE V.—The Highest and Lowest Prices paid for lands in Cook county in the year 1887, with the number of acres sold at the respective prices.**

Town number.	Range number.	Maximum paid per acre for tract of five or more acres.	Number of acres sold at maximum price.	Minimum price paid per acre.	Number of acres sold at minimum price.	Maximum size of tract—acres.	Price paid per acre for maximum tract.	Minimum size of tract—acres.	Highest price paid per acre for minimum size of tract.
The County..		\$8,000 00	5.00	\$0 25	120.00	440.00	\$62 50	0.10	\$120 00
85	13	\$70 38	80.00	\$12 50	10.00	160.00	\$37 50	10.00	\$52 20
	14	156 25	160.00	11 50	40.00	190.00	42 11	.75	62 00
36	12	218 34	60.00	18 18	5.50	320.00	50 00	5.50	18 18
	13	205 00	10.00	21 82	5.50	120.00	153 13	3.00	433 33
	14	300 00	50.00	55	10.00	89.00	75 00	1.25	80 00
	15	1,000 00	20.00	25	40.00	80.00	75 00	6.00	90 00
37	11	400 00	40.00	10 81	18.50	50.00	160 00	4.75	36 84
	12	80 00	20.00	30 00	15.00	200.00	25 00	15.00	30 00
	13	600 00	5.00	18 75	80.00	120.00	400 00	3.00	100 00
	14	1,250 00	20.00	25	80.00	80.00	28 05	1.00	5,766 00
	15	10,050 00	5.00	10 12	50.00	50.00	10 12	1.50	2,000 00
38	12	1,600 00	10.00	27 50	80.00	272.00	110 29	1.00	750 00
	13	2,500 00	40.00	50 00	10.00	340.00	176 44	4.00	431 25
	14	8,000 00	5.00	50 00	10.00	160.00	400 00	1.00	8,300 00
	15	†							
39	12	6,000 00	20.00	20 21	6.67	160.00	206 19	5.00	360 00
	13	3,000 00	5.00	25 00	20.00	160.00	625 00	.25	4,000 00
	14	650 00	40.00	75 00	13.33	40.00	603 52	.25	8,000 00
40	9	†							
	12	2,866 67	7.50	20 00	2.00	75.75	74 97	2.00	20 00
	13	2,000 00	5.00	38 65	163.00	163.00	38 65	1.00	17,200 00
	14	4,000 00	6.67	15 63	160.00	160.00	15 63	1.00	1,600 00
41	9	260 00	5.00	20 00	5.00	147.00	28 91	5.00	260 00
	10	62 50	160.00	62 50	160.00	160.00	62 50	2.00	500 00
	11	80 00	50.00	13 33	7.50	80.00	25 00	1.00	120 00
	12	150 40	6.25	13 00	1.00	80.00	82 50	1.00	13 00
	13	1,460 00	5.00	13 75	20.00	80.00	37 50	.50	300 00
	14	1,170 73	10.25	450 00	30.00	30.00	450 00	1.50	666 67
42	9	384 62	6.50	5 00	100.00	100.00	5 00	6.50	384 62
	10	90 00	6.00	17 50	40.00	114.75	43 57	.10	120 00
	11	214 97	16.10	33 20	5.00	440.00	62 50	1.00	95 00
	12	120 00	10.00	14 99	34.50	147.50	67 79	1.10	68 18
	13	2,000 00	30.00	30 00	20.00	40.00	200 00	4.00	100 00

\*Maximum price paid per acre in the county, for tract of any size, \$17,200; size of tract, one acre.

†One sale only.

TABLE VI.—*The Selling Value of Lands in Cook county, as shown by the records of deeds, made for acre tracts of land (not including lots, blocks or subdivisions) in each Town and Range of the county during the calendar year 1880.*

Town number.	Range number.	Number of sales made.	Aggregate amount of sales.	Number of a res sold.	Average price paid per acre.	Average size of tract—acres.	Whole number of assessed acres in the county.	Computed value of all lands in the county.
The County.		542	\$3,104,645	21,238.34	\$128 09	44.72	512,842	\$65,689,932
35	13	9	\$25,180	506.00	\$49 76	56.22	.....	.....
	14	12	18,320	592.00	30 95	49.33	.....	.....
	15	1	3,305	160.00	20 66	.....	.....	.....
36	12	27	51,559	1,845.50	27 94	68.35	.....	.....
	13	24	44,930	1,506.50	23 11	62.77	.....	.....
	14	16	25,554	472.50	54 08	29.53	.....	.....
	15	9	16,714	510.75	39 27	56.75	.....	.....
37	11	12	51,964	414.40	101 36	34.53	.....	.....
	12	16	19,490	623.00	31 28	38.94	.....	.....
	13	17	142,140	986.50	114 09	52.74	.....	.....
	14	66	742,242	3,036.57	244 43	46.01	.....	.....
	15	4	15,000	201.00	74 63	50.25	.....	.....
38	12	17	83,123	1,189.95	69 89	70.00	.....	.....
	13	22	283,762	998.50	302 36	42.66	.....	.....
	14	43	503,969	1,351.67	372 81	31.20	.....	.....
	15	5	22,991	37.90	606 62	7.58	.....	.....
39	12	10	47,609	310.75	153 21	31.08	.....	.....
	13	24	225,405	782.33	288 12	32.60	.....	.....
	14	5	41,700	195.00	213 84	39.00	.....	.....
40	12	8	20,320	358.00	56 51	44.75	.....	.....
	13	23	89,938	395.00	227 69	16.46	.....	.....
	14	7	135,724	343.50	395 41	49.07	.....	.....
41	9	19	41,458	749.60	55 31	39.45	.....	.....
	10	9	36,440	891.00	40 90	99.00	.....	.....
	11	10	28,609	515.00	55 55	51.50	.....	.....
	12	17	74,035	829.45	89 26	48.79	.....	.....
	13	25	55,546	485.55	114 40	19.42	.....	.....
42	14	5	9,535	18.67	510 71	3.75	.....	.....
	9	14	30,559	874.00	34 96	62.43	.....	.....
	10	21	119,299	1,421.50	83 92	67.69	.....	.....
	11	17	58,403	781.25	74 76	45.96	.....	.....
	12	19	32,800	561.00	58 47	29.53	.....	.....
43	13	9	7,022	354.00	19 84	39.33	.....	.....

TABLE VII.—*The Highest and Lowest Prices paid for lands in Cook county in the year 1880, with the number of acres sold at the respective prices.*

Town number.	Range number.	Maximum paid per acre for tract of five, or more, acres.	Number of acres sold at maximum price.	Minimum price paid per acre.	Number of acres sold at minimum price.	Maximum size of tract.—acres.	Price paid per acre for maximum tract.	Minimum size of tract.—acres.	Highest price paid per acre for minimum size of tract.
The County...		† \$10,500 00	10.00	\$0 53	160.00	560.00	\$7 14	0.25	\$1,200 00
35	13	\$87 50	80.00	\$30 00	46.00	160.00	\$37 50	20.00	\$50 00
	14	65 00	40.00	1 25	80.00	80.00	12 50	1.00	60 00
	15	*							
36	12	62 50	80.00	3 49	80.00	560.00	7 14	1.00	100 00
	13	141 25	40.00	75	80.00	240.00	2 08	1.00	1,300 00
	14	100 00	80.00	2 50	40.00	160.00	50	1.00	150 00
	15	100 00	15.00	6 85	146.00	146.00	6 85	8.00	75 00
37	11	488 37	86.00	10 00	30.00	86.00	488 37	11.00	45 45
	12	100 00	20.00	7 50	200.00	160.00	7 50	2.50	20 00
	13	1,086 67	7.50	20 00	5.00	320.00	187 50	2.50	30 00
	14	800 00	10.00	25 00	40.00	200.00	200 00	4.00	287 50
	15	75 00	160.00	50 00	80.00	80.00	75 00	1.00	1,000 00
38	12	1,076 92	6.50	2 50	2.00	280.00	12 50	1.20	333 33
	13	10,500 00	10.00	10 00	10.00	80.00	500 00	4.00	675 00
	14	7,504 69	5.33	3 63	40.00	120.00	380 25	1.50	1,400 00
	15	526 32	19.00	113 25	11.40	19.00	526 32	1.25	560 00
39	12	597 01	16.75	28 75	40.00	100.00	95 00	1.00	1,640 00
	13	2,106 62	13.00	7 50	13.33	180.00	55 55	5.00	1,900 00
	14	2,600 00	5.00	5 00	20.00	120.00	55 00	5.00	2,600 00
40	12	100 00	44.00	3 00	40.00	100.00	55 00	4.00	100 00
	13	500 00	5.00	40 00	80.00	80.00	40 00	1.00	2,600 00
	14	1,240 00	5.00	225 84	187.00	187.00	225 84	5.00	1,240 00
41	9	287 88	33.00	10 53	9.50	116.00	34 48	2.10	56 67
	10	70 00	5.00	16 13	124.00	247.00	60 08	5.00	70 00
	11	175 00	10.00	25 00	80.00	102.00	29 41	1.00	130 00
	12	155 00	5.00	20 00	10.00	255.00	130 78	5.00	155 00
	13	400 00	5.00	20 00	60.00	62.25	48 19	7.00	170 67
	14	376 09	13.33	130 00	2.00	13.33	376 09	.33	2,651 52
42	9	115 00	5.00	5 71	280.00	280.00	5 71	5.00	115 00
	10	600 00	95.00	5 00	80.00	420.00	42 86	3.00	6 67
	11	130 78	45.96	6 33	79.00	254.50	130 78	.25	1,200 00
	12	180 00	20.00	5 00	40.00	140.00	52 00	2.00	100 00
	13	104 29	14.00	53	160.00	160.00	53	4.00	150 00

\* One sale only.

† Maximum price paid per acre for tract of any size.

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PART III.

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STATISTICS OF COAL MINING IN ILLINOIS.

REPORTS OF THE STATE INSPECTORS OF MINES.

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## COAL IN ILLINOIS.

The statistics of coal production in Illinois for the year ending July 1, 1890, are summarized in the following totals:

Number of counties in which coal has been mined..	57
Number of mines and openings of all kinds.....	936
Number of tons (2,000 pounds) of lump coal mined	12,638,364
Number of employés of all kinds.....	28,574
Number of miners.....	20,106
Number of other employés, including boys.....	8,468
Number of boys 14 years old or more.....	865
Average number of days of active operations.....	203.5
Aggregate home value of products.....	\$12,882,936
Average value per ton.....	\$1.01935
Average price per ton paid for hand-mining.....	\$0.683
Number of tons of lump coal mined by hand.....	9,756,381
Number of mining machines in use.....	266
Number of tons of lump coal mined by machines....	2,881,983
Number of kegs of powder used.....	235,246
Number of men killed.....	53
Number of wives made widows.....	33
Number of children made fatherless.....	75
Number of men injured so as to lose time.....	294
Number of tons mined for each life lost.....	238,450
Number of tons mined for each man injured.....	42,988
Number of employés for each life lost.....	539
Number of employés for each man injured.....	97
Number of new mines opened, including old mines reopened.....	176
Number of mines closed and abandoned.....	94

Compared with the statistics of this industry for 1889, this exhibit presents the following differences:

There is an increase of eight in the number of counties from which mining operations are reported, and the number of mines

and openings of all kinds has increased 82, or from 854 to 936. The aggregate output for the year is 1,040,401 tons greater than for the year preceding, and the average value of the same per ton at the mines has declined from \$1.07 to \$1.02; the average price of mining for the State at large has also declined from 73 cents to 68 cents a ton. The number of employés of all kinds is smaller than that reported for the preceding year, but there has been an increase of 31 in the number of mining machines used, and of half a million tons, or 23 per cent., in the amount of coal cut by machines. The number of fatal accidents during the year has increased from 42 to 53, and the number of non-fatal accidents from 201 to 294. The average number of days of active operations during the year has been somewhat less than in former years, owing to a strike of unusual duration in the northern field, where also there has been a marked shortage of product; but in the central and southern districts there has been a corresponding activity and enlargement of capacity and output.

*Counties.* The whole number of counties in which coal has been mined during the year is reported as 57, or eight more than in former reports. These counties are Effingham, Jasper, Pike and Richland in the fourth district; and Franklin, Hardin, Hamilton and Jefferson in the fifth district. In none of these counties, however, has there been any new or important development. The inspectors have simply been able to locate and visit certain small diggings in remote places which had before escaped attention. The insignificance of these local pits may be judged from the fact that there were 27 of them found within the area of these eight counties, but that the entire output of all of them for the year was less than 5,000 tons.

*Number of Mines.* The number of openings of all kinds in the State is also somewhat larger than any number reported in former years, and this is owing rather to the multiplying of small country coal banks than the opening of large mining establishments. Last year the whole number of mines and openings of all kinds was 854; this year the number reported is 936, showing a numerical increase of 82. Analyzing the

character of these places on the basis of their annual output, and by districts, the following results are obtained:

DISTRICTS.	No. of mines producing less than 1,000 tons.	No. of mines producing from 1,000 to 10,000 tons.	No. of mines producing from 10,000 to 50,000 tons.	No. of mines producing over 50,000 tons.	Total number of mines of all kinds.
First.....	18	20	22	19	79
Second.....	149	86	14	5	254
Third.....	115	108	37	13	273
Fourth.....	48	36	27	26	137
Fifth.....	68	51	55	19	193
Total.....	398	301	155	82	936

This illustrates the relative importance of the mines in the several districts as they have been found and reported for the past year. An opportunity to compare this with classifications of a similar kind made for a series of years is presented in the following table:

YEARS.	Number of mines producing less than 1,000 tons.	Number of mines producing from 1,000 to 10,000 tons.	Number of mines producing from 10,000 to 50,000 tons.	Number of mines producing over 50,000 tons.	Total number of mines of all kinds.
1883 .....	209	233	135	62	639
1884 .....	262	273	146	60	741
1885 .....	286	290	139	63	778
1886 .....	316	280	136	57	787
1887 .....	320	278	139	64	801
1888 .....	327	271	152	72	822
1889 .....	321	316	139	78	854
1890 .....	398	301	155	82	936

The principal increase in the number of openings reported this year is here shown to have been in the least important class, though in the two higher classes there is a notable increase in the number of mines. The identity of these new mines, the place, character and output of each may be established by reference to the subsequent county tables. The relative product

of these groups of mines in tons, of 2,000 pounds, and for the last four years, as shown in the following table, will still further illustrate their relative importance:

YEARS.	MINES PRODUCING MORE THAN 50,000 TONS.		MINES PRODUCING FROM 10,000 TO 50,000 TONS.		MINES PRODUCING LESS THAN 10,000 TONS.		TOTAL NUMBER OF MINES AND TONS.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
1887 .....	64	5,949,894	139	3,270,681	596	1,058,315	801	10,278,890
1888 .....	72	7,188,507	152	3,666,324	598	1,000,357	822	11,855,188
1889 .....	78	7,235,577	139	3,210,920	637	1,151,466	854	11,597,963
1890 .....	82	8,011,787	155	3,488,601	699	1,137,976	936	12,638,364

Reduced to percentages, these figures show that during the last year less than 9 per cent. of the whole number of mines produced 63.5 per cent. of the entire tonnage of the state, and that 25 per cent. of the number delivered 91.1 per cent. of all the coal. This leaves 75 per cent. of all the mines, or 699 out of 936 in the class producing less than 10,000 tons per annum. The actual output of these is found to have been less than 9 per cent. of the whole, or an average of 1,628 tons each. A further illustration of the relatively small number of the more productive mines is obtained from a separation of those engaged in shipping coal to distant markets from those which are operated merely for the purpose of supplying the local demand.

The results of such a classification appear in the following table:

DISTRICTS.	SHIPPING MINES.		LOCAL MINES.		Total mines.
	Number	Per cent of total product.	Number	Per cent of total product.	
First.....	37	93.1	42	6.9	79
Second .....	32	80.3	222	19.7	254
Third .....	93	89.5	180	10.5	273
Fourth .....	55	96.4	82	3.6	137
Fifth .....	110	97.8	83	2.2	193
The State .....	327	93.6	609	6.4	936

From this it is seen that 327 mines, or about one-third of the whole number are engaged in producing coal for the general

market, and that from these 93.6 per cent. of the total product is delivered. On the other hand only 6.4 per cent. of the entire output was mined in the 609 other mining places of the state. The great preponderance of small mines is found in the second and third districts.

Four collieries have attained an output of over 200,000 tons, each, during the past year, as follows:

FOUR MINES SHOWING LARGEST OUTPUT FOR 1890.	Town.	County.	District.	Tons.
Consolidated Coal Co., No. 6.....	Staunton.....	Macoupin .....	4	285,308
St. Louis Ore and Steel Co., No. 5.....	Murphysboro .....	Jackson .....	5	232,731
Consolidated Coal Co., No. 8.....	Mt. Olive .....	Macoupin .....	4	230,442
Pana Coal and Mining Co.....	Pana .....	Christian .....	4	216,766
Total.....				965,247

The following 25 mines produced more than 100,000 and less than 200,000 tons:

MINES WHICH HAVE PRODUCED MORE THAN 100,000 AND LESS THAN 200,000 TONS.	Town.	County.	District.	Tons.
Consolidated Coal Co., No. 10.....	Mt. Olive.....	Macoupin .....	4	184,588
Chicago, Wilmington & Vermilion Co., No. 1 .....	Streator .....	LaSalle .....	1	179,109
Consolidated Coal Co.....	Heintz Bluff .....	Madison .....	4	172,864
Chicago, Wilmington & Vermilion Coal Co., J.....	Braidwood .....	Will .....	1	169,706
Consolidated Coal Co., No. 3.....	Collinsville.....	Madison .....	4	166,245
Chicago, Wilmington & Vermilion Coal Co., No. 3.....	Streator .....	LaSalle.....	1	165,408
Chicago, Milwaukee & St. Paul Coal Co.....	Braceville .....	Grundy.....	1	156,507
Consolidated Coal Co., No. 4.....	Danville .....	Vermilion .....	3	150,019
DuQuoin Coal and Mining Co.....	DuQuoin .....	Perry .....	5	150,000
Consolidated Coal Co., No. 7.....	Staunton .....	Macoupin.....	4	147,669
Consolidated Coal Co.....	Gillespie.....	Macoupin.....	4	142,525
Girard Coal Co.....	Girard .....	Macoupin.....	4	140,812
Penwell Coal Co.....	Pana.....	Christian.....	4	135,747
Star Coal Co.....	Kangley .....	LaSalle.....	1	131,577
McLean County Coal Co.....	Bloomington.....	McLean.....	3	127,082
Coal Valley Coal Co.....	Cable .....	Rock Island.....	2	124,795
Consolidated Coal Co., No. 4.....	Collinsville .....	Madison.....	4	122,632
Consolidated Coal Co.....	Ridge Prairie .....	St. Clair.....	5	121,532
Wilmington Mining Co.....	Diamond .....	Grundy.....	1	111,695

Table—Continued.

MINES WHICH HAVE PRODUCED MORE THAN 100,000 AND LESS THAN 200,000 TONS.	Town.	County.	Dis- trict.	Tons.
Central Coal & Salt Co.....	St. John.....	Perry.....	5	111,481
Consolidated Coal Co. No. 3.....	Danville.....	Vermilion.....	3	108,938
Spring Valley Coal Co.....	Spring Valley.....	Bureau.....	2	106,915
Riverton Coal Co.....	Riverton.....	Sangamon.....	4	101,930
Grape Creek Coal Co.....	Grape Creek.....	Vermilion.....	3	101,917
Tracy, Fisher & Co.....	Springfield.....	Sangamon.....	4	101,352
Total.....				3,433,045

Under ordinary circumstances the number of mines producing more than 200,000 tons should be eight or ten instead of four; but during the year covered by these figures all the great collieries in the northern part of the state were suspended for several months by reason of a general strike in that part of the field. The same event also materially increased the product of three out of the four mines which now stand at the head of the list.

*The Output for the Year.* Notwithstanding the strike which prevailed in the first and second districts during the earlier months in this year the aggregate coal product of the State has been considerably greater than ever before. The total for this year is 12,638,364 tons of lump coal as against 11,597,963 tons in the preceding year. The absolute gain has been 1,040,401 tons, or 9 per cent. of the output of the former year. The following groups of totals show in what districts the gains and losses have been made:

DISTRICTS.	GAIN AND LOSS IN OUTPUT, 1889-1890, BY DISTRICTS.			
	1889—Tons.	1890—Tons.	Gain.	Loss.
First .....	2,530,453	2,303,326	.....	227,127
Second.....	1,087,848	1,002,600	.....	85,248
Third.....	2,050,349	2,375,970	325,621	.....
Fourth.....	3,164,835	3,716,464	551,629	.....
Fifth.....	2,764,478	3,240,004	475,526	.....
The State.....	11,597,963	12,638,364	1,040,401	312,375

From this it appears that the gain in the central and southern field has been greatly in excess of the losses sustained in the northern field by reason of the strike. This does not cover the whole case, however, as the same suspension also influenced the product of 1889. There was no work done in the disaffected districts during May or June of that year, and but little for several months before; meanwhile there was no intermission of operations in other parts of the State. Thus the fiscal year of 1889 also showed a falling off in the tonnage of the northern field and an increase in that of the central and southern. The gains in one quarter, however, were not enough in that year to make up for the losses in the other, and the net decline in product for the State was 257,225 tons. Taking the results of the two years in combination there was a falling off of product in the northern field of 694,452 tons in 1889 and of 312,375 in 1890, or 1,006,827 in all; while in the central and southern districts there was an increase of 437,227 tons in 1889 and of 1,352,776 tons in 1890, or of 1,790,003 tons in all. The difference between these totals, 783,176 tons, represents the net increase in the tonnage of the State during the last two years, or since 1888, notwithstanding the serious interruption of business and consequent impairment of output which resulted from the six months of controversy about wages. These facts afford rather strong evidence of the material progress of the industry, and incidentally point to a possible though gradual shifting of the center of greatest activity from the northern to the central coal-field.

The following are the summaries of production for a series of ten years, in tons of 2,000 pounds, of lump coal, together with the number of mines and openings of all kinds from which it was delivered:

Years.	Mines.	Tons.	Years.	Mines.	Tons.
1880.....	590	6,115,377	1886.....	787	9,246,435
1882.....	704	9,115,563	1887.....	801	10,278,890
1883.....	639	10,030,991	1888.....	822	11,855,188
1884.....	741	10,101,005	1889.....	854	11,597,963
1885.....	778	9,791,874	1890.....	936	12,638,364

For the year 1882 and for each subsequent year these statistics have been compiled by this bureau; the figures given above for 1880 are those published by the Tenth United States Census. The results for 1881 are omitted from this table for the reason that no state report on this subject was made prior to 1882.

The conspicuous feature of this showing is the fact that the output of coal in this State has more than doubled during ten years, and that the number of mining places has increased from 590 to 936. It is observable, however, that the increase has not been uniform from year to year, but that from 1883 to 1887 there was a decline in tonnage, followed by material gains in more recent years.

Although the mining of coal has been carried on to greater or less extent in 57 counties in the state during the last year, the greater portion of the total product has been derived from a comparatively few of them. The relative rank of the ten counties from which the greatest quantities have been mined is indicated as follows:

Rank.	Counties.	Tons.	Rank.	Counties.	Tons.
1	Macoupin.....	1,369,919	6	Grundy.....	654,017
2	St. Clair.....	1,332,978	7	Madison.....	646,228
3	La Salle.....	926,214	8	Jackson.....	580,521
4	Sangamon.....	879,888	9	Perry.....	497,768
5	Vermilion.....	704,509	10	Peoria.....	482,725

The amount of coal derived from these ten counties was 8,074,767 tons, or about two-thirds of all the coal produced.

Following is a statement of the output of each county for a series of four years with the gain or loss in each county during the last year:

COUNTIES.	1887.	1888.	1889.	1890.	Gain, tons.	Loss, tons.
	Output, tons	Output, tons	Output, tons	Output, tons		
First District.....	2,686,829	2,877,794	2,530,453	2,308,326	.....	227,127
Counties..... 5						
Grundy.....	792,954	862,866	698,083	654,017	.....	44,016
Kankakee.....	97,000	82,000	67,380	62,460	.....	4,920
LaSalle.....	1,125,235	1,090,435	1,039,703	926,214	.....	113,489
Livingston.....	387,600	498,388	382,965	372,504	.....	10,461
Will.....	284,040	347,105	342,372	288,131	.....	54,241



COUNTIES.	1887.	1888.	1889.	1890.	Gain, tons.	Loss, tons.
	Output, tons	Output, tons	Output, tons	Output, tons		
Second District.....	1,069,027	1,203,187	1,087,818	1,002,600	71,059	156,307
Counties..... 11						
Bureau.....	429,580	635,097	493,730	372,701	.....	121,029
Hancock.....	6,208	6,515	6,028	6,948	.....	920
Henry.....	117,533	108,831	101,716	98,734	.....	2,982
Knox.....	64,324	57,013	57,588	51,653	.....	5,995
Marshall.....	73,928	87,013	59,781	56,574	.....	3,210
McDonough.....	110,103	104,274	98,386	83,401	.....	14,985
Mercer.....	127,708	167,931	175,690	238,290	62,600	.....
Rock Island.....	85,282	57,872	47,363	39,696	.....	7,667
Schuyler.....	22,686	34,403	16,243	21,836	5,593	.....
Stark.....	17,865	18,690	19,171	18,672	.....	499
Warren.....	13,810	15,518	12,149	14,095	1,946	.....
Third District.....	1,781,395	2,192,121	2,050,349	2,375,970	365,497	39,876
Counties..... 9						
Cass.....	2,325	7,300	4,414	4,650	236	.....
Fulton.....	337,215	461,589	366,577	404,417	37,840	.....
Logan.....	159,000	174,330	138,700	164,650	25,950	.....
McLean.....	141,700	117,110	129,322	173,492	44,170	.....
Menard.....	155,621	181,075	181,621	230,662	49,041	.....
Peoria.....	452,123	533,817	454,731	482,725	27,994	.....
Tazewell.....	51,847	59,324	67,973	81,141	13,168	.....
Vermilion.....	359,119	499,076	537,411	704,509	167,098	.....
Woodford.....	122,445	158,500	169,600	129,724	.....	39,876
Fourth District.....	2,568,291	2,854,540	3,164,835	3,716,464	613,222	61,593
Counties..... 18						
Bond.....	36,076	38,200	59,724	66,746	7,022	.....
Calhoun.....	.....	1,036	1,078	1,468	390	.....
Christian.....	149,973	147,030	249,774	439,451	189,677	.....
Coles.....	31,612	27,210	.....	.....	796	.....
Effingham.....	.....	.....	.....	.....	796	.....
Greene.....	12,578	14,494	19,048	11,714	152	7,334
Jasper.....	.....	.....	.....	.....	152	.....
Jersey.....	2,684	3,949	4,040	7,500	3,460	.....
Macon.....	118,183	280,805	233,309	179,050	.....	54,259
Macoupin.....	926,588	1,016,624	1,202,187	1,369,919	167,732	.....
Madison.....	521,705	512,948	490,181	646,228	156,047	.....
Montgomery.....	10,220	14,295	24,425	58,617	34,192	.....
Morgan.....	6,669	12,545	13,019	16,601	3,582	.....
Pike.....	.....	.....	.....	135	135	.....
Richland.....	.....	.....	.....	154	154	.....
Sangamon.....	730,391	764,970	846,012	879,888	33,876	.....
Scott.....	9,802	12,491	15,028	20,022	4,994	.....
Shelby.....	8,810	7,943	7,010	18,023	11,913	.....
Fifth District.....	2,173,318	2,637,546	2,764,478	3,240,004	522,512	46,986
Counties..... 15						
Clinton.....	55,238	66,463	121,557	170,416	48,859	.....
Franklin.....	.....	.....	.....	790	790	.....
Gallatin.....	31,437	45,374	30,044	52,383	22,339	.....
Hardin.....	.....	.....	.....	40	40	.....
Hamilton.....	.....	.....	.....	450	450	.....
Jackson.....	375,718	445,575	477,474	580,521	103,047	.....
Jefferson.....	.....	.....	.....	2,190	2,190	.....
Johnson.....	28,000	28,210	3,000	12,110	9,110	.....
Marion.....	98,915	156,975	180,777	218,499	37,722	.....
Perry.....	319,552	306,235	381,347	497,768	116,421	.....
Randolph.....	74,263	167,321	98,202	134,699	36,497	.....
Saline.....	19,518	32,550	35,496	45,845	10,349	.....
St. Clair.....	1,018,149	1,184,579	1,198,100	1,332,978	134,878	.....
Washington.....	40,220	43,600	36,220	25,160	.....	11,060
Williamson.....	112,338	160,664	202,261	166,335	.....	35,926
Counties..... 58						
State totals.....	10,287,890	11,855,188	11,597,963	12,638,364	*1,040,401	.....

\* Net increase.

*The Number of Employés.*—Contrary to all precedent, the whole number of miners and others employed at coal mines, as reported for this year, has not increased with the larger output of coal, but has materially fallen short of the number reported for 1889. The following figures show the reported numbers of employés identified with this industry for each of ten years:

	MINEERS.	OTHERS.	TOTALS.
1880.....			16,301
1882.....			20,290
1883.....	20,839	3,100	23,939
1884.....	20,610	4,965	25,575
1885.....	20,772	5,174	25,946
1886.....	20,973	4,873	25,846
1887.....	21,158	5,646	26,804
1888.....	23,648	5,762	29,410
1889.....	23,583	6,493	30,076
1890.....	20,106	8,468	28,574

These totals are not the result of an enumeration of the employés at the several mines at any particular time, but are made up from the numbers reported to the inspector by each proprietor as the average number employed during the winter months. This is readily obtained from the monthly pay-rolls, and though the result is necessarily somewhat less than exact as to individuals, there is no reason to doubt the substantial correctness of the numbers thus reported.

It will be observed, however, that heretofore there has been a uniform increase in the number of employés corresponding in general with the increase in product; whereas for this year with an increase of 9 per cent. in tonnage there is a decrease of 5 per cent. in the number of men employed. An examination of the returns by districts shows that this falling off is chiefly in the first and second districts, where the recent long strike prevailed, and from which there was a general exodus of miners at that time. In the third and fourth districts the working force has remained about stationary though the output has been larger than ever, while in the fifth district there has been an increase in product and a decrease of 7 per cent. in the number of men.

The following is a summary statement by districts, of the relative number of coal mine employèes in the State for the years 1889 and 1890:

*Total men employed in and about mines, 1889-1890.*

DISTRICTS.	1889.	1890.	Numerical increase (+) or decrease (-)	Per cent. of increase (+) or decrease (-)
First.....	9,018	8,253	-760	-8.4
Second.....	4,498	4,099	-399	-8.8
Third.....	5,117	5,171	+54	+1.04
Fourth.....	6,679	5,685	+6	+ .10
Fifth.....	5,764	5,361	-403	-6.9
Total.....	30,076	28,574	-1,502	-4.99

Granting that the number of mine employèes would naturally diminish in the first and second districts as a result of the prolonged strike in that region, there is still no explanation of the fact that there has been no corresponding increase, and practically no increase at all, in other districts which show an increase in product, and that in one, in which work has been continuous, there has been a decrease in the number of men, except upon the theory that men of this class have been drifting away from the State instead of towards it as heretofore.

It is not probable that the decrease is merely apparent and owing to faulty reports of mine-owners, for it is found that a fewer number is reported from a great number of mines, and from all parts of the State. On the other hand there has, in fact, been an increasing demand for miners in the West and Southwest, and a pronounced disposition in this State to reduce the cost of production by substituting mechanical processes and day laborers for coal miners proper. That this condition is not inconsistent with an increased output of coal may be understood from the fact, as shown by the statistics in Part I of this report, that the number of men available for this industry has been, and doubtless still is, in excess of the demand for their labor.

*Days of Active Operations.*—There has necessarily been some impairment of the time actually devoted to this year's product, owing to the entire suspension of operations for a portion of

the year in one important field. The experience of the mines in the various districts for the present and two preceding years is given below:

DISTRICTS. 1890.	Number of mines.	Average No. days of op- eration.	Per cent. of total product repre- sented.	Percent. of total number employed.	AVERAGE No. DAYS.	
					1889.	1888.
First.....	56	178	91	82	188	216
Second.....	164	182	86	81	198	219
Third.....	143	193	91	83	203	219
Fourth.....	84	243	97	78	240.3	230
Fifth.....	108	232	97	86	235	219
The State.....	555	203.5	93.2	82	211.5	220.6

The mines which are enumerated in this classification are those which are supposed to have been operated continuously throughout the year, so far as the demand for coal justified it, and do not embrace those which have been opened during the year or those which are worked through the winter months only. The average running time of all mines is found to have been 203.5 days in 1890, as against 211.5 days in 1889, and 220.6 days in 1888. The falling off is observed to have taken place in the first three districts, while the average for the others has increased.

The following table shows the average running time of the mines of the State for a series of years, combined with the percentage of total product delivered by the mines whose days of active operations enter into the average given:

YEARS.	Av. number of days worked in year.	Percentage of total pro- duct rep- resented.	Percentage of full time.
1885.....	225	93	70.2
1886.....	206	92	66.4
1887.....	213.2	94	68.7
1888.....	220.6	93	71.3
1889.....	211.5	91	68.2
1890.....	203.5	93.2	66.5
Six years.....	213.3	92.7	68.5

The reading of this table is that for a period of six years those mines which have produced 92.7 per cent of the total

tonnage of the State, have been in active operation, on an average, 213.3 days each during each year, that is, the industry as a whole has afforded employment to its men 68.5 per cent. of full time.

*Average Value of Coal at the Mines.*—The customary computation of average worth of coal at the mine, based upon the figures given to the inspectors by the proprietors of mines, has been made for 1890, and the results are presented herewith in comparison with similar results for a series of years:

*Average value of coal per ton (2,000 pounds) at the mines.*

DISTRICTS.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.
First.....	\$1 75	\$1 59	\$1 49	\$1 41	\$1 32	\$1 316	\$1 3696	\$1 355	\$1 302
Second.....	1 87	1 97	1 79	1 71	1 57	1 497	1 4725	1 432	1 477
Third.....	1 43	1 45	1 31	1 25	1 16	1 095	1 1384	1 104	1 0648
Fourth.....	1 33	1 32	1 09	985	969	887	9470	965	8729
Fifth.....	1 31	1 26	961	894	862	823	8575	867	8113
The State.....	\$1 51	\$1 48	\$1 26	\$1 17	\$1 10	\$1 086	\$1 1226	\$1 0775	\$1 01935

The fluctuations in the average value of coal are here shown for a series of years and for each district and the State. The averages as computed for the State present a uniform decline from year to year, save a slight exception in 1888, and the total falling off in value since 1882 is 50 cents a ton, or 33½ per cent. One half of this depreciation, however, occurred in the first three years, and one half the remainder in the two years following. The further decline from \$1.10 to \$1.02 has been more gradual and the result of four years depression of prices. Referring to the experience of the various districts it is noticeable that the average for the State has been depressed during the past year, almost wholly by the decline in prices in the fourth and fifth districts, in the former of which the average value has fallen off 9.2 cents and in the latter 5.6 cents a ton.

*Prices Paid for Mining by Hand.*—An examination of the following table shows the movement in the rate of wages which has characterized coal mining in this State during a series of eight years:

*Average prices paid per ton for hand-mining, 1883-1890.*

DISTRICTS.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.
First.....	\$0 917	\$0 906	\$0 867	\$0 859	\$0 891	\$0 8885	\$0 8918	\$0 8122
Second.....	983	1 00	941	927	927	9181	9241	8917
Third.....	875	873	814	729	688	7055	6991	6798
Fourth.....	71	694	62	573	576	6136	5991	5833
Fifth.....	619	60	511	501	537	5536	525	5108
The State....	\$0 802	\$0 783	\$0 725	\$0 676	\$0 727	\$0 7171	\$0 7314	\$0 683

The foregoing averages have been computed every year for eight years by the proper combination of the number of tons mined at each specific rate, with the various rates paid and with due allowance for the difference, where any is found, between the rates paid in summer and in winter. They are, therefore, mathematically true as averages though not identical with the price paid at any particular place. The object of the table like that concerning the average value of product is to present an illustration of the tendency, both of values and wages, in specific terms, from year to year, for the various mining districts and the State as a whole.

The decline in the average rate of wages in this State during eight years is represented by the difference between 80.2 cents and 68.3 cents per ton, or 11.9 cents, or 14.8 per cent. It is observed, however, that during the years 1885-89 the variation from year to year was inconsiderable and without definite tendency, but that from 1883 to 1885 there was a drop of about seven cents a ton and during the last year an average decline of five cents. The latter is clearly due to the reduction of seven and a half-cents a ton which was imposed in certain districts as a result of the strike of past year. The average for the year following or the current year (1891) during which the old rate of wages, in the same field has been restored, should consequently be higher. The specific fluctuations in the various districts during the past year and seven preceding years may be observed in the table. The average decline in the first district is 7.96 cents, and in the second, only a part of which was affected by the strike, 3.24 cents; while in each of the other districts the variation is very small, though uniformly a decline.

*Mining with Machines.*—The amount of coal undercut with machines during the year has been somewhat larger than in any previous year, and the number of machines in use has been greater than in the preceding year, though less than in the year 1888. The number of mines in which this method has been practiced has not increased though the machines have been abandoned in some mines and introduced in others. The statistics for the last three years are as follows:

YEARS.	No. of mines.	No. of machines.	No. of tons cut.	Percent. of total product.	No. of men employed.	Percent. of total men.
1888.....	39	272	2,249,210	18.9	3,088	10.5
1889.....	35	235	2,946,713	20.2	3,439	11.4
1890.....	34	266	2,881,983	22.8	3,141	10.9

The mines reported here are all those in which machines have been used at all, and is not confined to those in which they are used exclusively. The inference from these figures is that while the use of machines has not become more general, the number has been increased in mines where they have given satisfactory results.

The fields in which the machine process is most general are indicated by the following statement of the number of tons mined by this method in each of the several districts. With these figures are combined the number and the names of the machines used:

DISTRICTS.	NUMBER AND KINDS OF MACHINES IN USE.							Total tons produced.	Number of men em- ployed.	
	Harri- son.	Chou- teau.	Inger- soll.	Kang- ley.	Legg.	Sperry	Yock.			Total ma- chines.
First .....	14	.....	.....	5	4	4	.....	27	89,414	224
Second.....	12	.....	.....	.....	.....	.....	.....	12	20,000	80
Third .....	6	.....	.....	.....	.....	.....	.....	6	55,854	50
Fourth.....	128	17	4	.....	3	.....	.....	152	1,615,453	1,614
Fifth .....	54	9	.....	.....	.....	.....	6	69	1,101,262	1,173
Totals...	214	26	4	5	7	4	6	266	2,881,983	3,141

As compared with the preceding year these figures show an increase of machine product of 241,580 tons in the fourth district, and of 295,459 tons in the fifth district, with but slight

change in the others. Several new machines have made their appearance during the year, known severally as the Ingersoll, Kangley and Sperry, and the number of Chouteau machines, which have recently been introduced, has increased from 14 to 26.

The rates of wages paid to men employed in operating machines have not materially changed during the last three years as appears in the following group of average daily wages:

OCCUPATION.	1888.	1889.	1890.	OCCUPATION.	1888.	1889.	1890.
Cutters .....	\$2 33	\$2 34	\$2 29	Timberers.....	\$2 02	\$2 07	\$2 04
Helpers.....	1 70	1 78	1 77	Laborers .....	1 61	1 66	1 73
Blasters.....	2 07	2 09	2 07	Drillers .....	2 00	2 00	.....
Loaders.....	1 79	1 80	1 78				

*The Consumption of Powder in Mines*—The statistics of the amount of blasting powder used in the mines of the State show an increase in quantity corresponding with the increase in tonnage. The following is a condensed statement of the number of kegs of powder consumed in the prosecution of this business in the mines worked by hand, by districts and the State, and compared with the number of men who have handled it and the number of tons of coal produced by it:

DISTRICTS.	Number of mines.	Number of men.	Kegs of powder.	Tons of coal.	Kegs per man.	Tons per keg.	
First .....	25	2,489	14,750	997,806	5.9	67.6	
Second .....	58	1,141	10,094	388,438	8.8	38.4	
Third .....	197	4,054	73,480	1,959,882	18.1	26.6	
Fourth.....	44	2,598	49,555	1,972,804	19.0	39.8	
Fifth .....	112	2,958	53,406	2,026,237	18.0	37.9	
The State. {	1890.....	436	13,240	201,285	7,345,157	15.2	36.4
	1889.....	461	10,999	169,332	6,051,149	15.4	35.7
	1888.....	414	10,205	159,908	5,972,796	15.7	37.4



The detail by counties is as follows:

*Consumption of Powder in Hand Mines—1890.*

DISTRICTS.	COUNTIES.	Number of mines.	Number of min- ers em- ployed.	Number of tons mined.	Number of kegs used.	Number of kegs per man.	Number of tons per keg.
The State.....		436	13,240	7,345,157	201,285	15.2	36.4
Total.....		25	2,489	997,806	14,750	5.9	67.6
First.....	LaSalle.....	13	1,516	625,302	9,168	6.0	68.0
	Livingston.....	12	973	372,504	5,582	5.7	66.7
Total.....		58	1,141	388,428	10,094	8.8	38.4
Second.....	Bureau.....	7	334	44,965	531	1.5	84.6
	Henry.....	2	38	21,783	307	8.0	70.9
	Marshall.....	1	45	13,600	175	3.8	77.7
	Mercer.....	14	446	235,788	6,524	14.6	36.1
	Rock Island.....	18	177	37,142	1,122	6.3	38.1
	Schuyler.....	4	41	19,236	1,086	26.4	17.7
	Stark.....	8	40	10,492	249	6.2	42.1
	Warren.....	4	20	5,422	100	5.0	54.2
Total.....		197	4,054	1,959,832	73,480	18.1	26.6
Third.....	Cass.....	3	13	2,928	138	10.6	21.2
	Fulton.....	47	711	368,451	14,141	19.9	26.0
	Logan.....	3	205	164,650	7,204	35.1	22.8
	Mercer.....	9	260	174,808	7,665	29.4	22.8
	McLean.....	2	72	46,410	1,860	25.8	24.9
	Peoria.....	73	1,401	476,170	23,143	16.5	20.5
	Tazewell.....	11	198	81,141	3,986	20.1	20.3
	Vermilion.....	49	1,194	645,324	15,343	12.8	42.0
Total.....		44	2,598	1,972,804	49,555	19.0	39.8
Fourth.....	Bond.....	2	89	66,746	1,925	21.6	34.6
	Calhoun.....	1	5	2,936	35	17.0	34.5
	Christian.....	6	563	439,451	3,404	6.0	129.1
	Macon.....	1	89	46,320	2,516	26.0	20.0
	Macoupin.....	9	391	450,702	6,264	18.9	71.9
	Madison.....	5	153	106,197	2,094	13.6	51.1
	Montgomery.....	2	98	43,237	803	8.2	53.9
	Sangamon.....	17	1,228	801,881	32,285	24.6	24.8
	Scott.....	1	42	13,274	379	9.0	35.0
Total.....		112	2,958	2,026,237	53,406	18.0	37.9
Fifth.....	Clinton.....	2	114	78,921	2,964	26.0	26.6
	Gallatin.....	2	66	50,583	1,115	16.9	45.3
	Jackson.....	6	115	59,977	1,450	12.6	41.3
	Johnson.....	1	30	12,000	210	7.0	57.1
	Marion.....	4	251	198,099	5,553	20.1	35.6
	Perry.....	16	821	497,388	13,425	16.3	37.0
	Randolph.....	12	211	132,922	3,848	18.2	34.5
	Saline.....	7	112	43,345	808	7.2	53.6
	St. Clair.....	52	1,116	826,402	19,648	17.6	42.0
	Washington.....	4	59	25,160	718	12.1	36.1
	Williamson.....	6	63	101,440	3,667	58.2	27.7

In addition to the quantities of powder consumed in hand mines, as indicated by the foregoing table, the further use of the explosive is shown by the table following, which gives the experience in this respect of those mines in which machines are used exclusively. Here the number of kegs consumed is combined with the number of men, machines, and tons of product for 25 mines in the three southern districts:

*Consumption of Powder in Machine Mines—1890.*

DISTRICTS AND COUNTIES.	COMPANIES.	No. of mines.	No. of ma- chines.	No. of em- ployees.	No. of tons of coal pro- duced.	No. of kegs of powdr used during year.	No. of tons produced per keg.
The State .....		25	207	2,733	2,654,150	32,454	81.7
Third District..	Total.....	1	6	50	55,854	1,274	43.8
Menard.....	Menard County Coal Company .....	1	6	50	55,854	1,274	43.8
Fourth District	Total.....	11	138	1,516	1,497,034	14,814	101.0
Macoupin....	Consolidated Coal Company, No. 6.....	1	32	272	285,308	2,697	105.8
	Consolidated Coal Company, No. 7.....	1	17	153	147,669	1,337	110.4
	Consolidated Coal Company, No. 8.....	1	24	226	230,442	1,772	130.0
	Consolidated Coal Company, Gillespie....	1	16	143	142,525	1,347	105.8
	Consolidated Coal Company, St. Barnard..	1	5	74	63,776	660	96.6
	Mount Olive Coal Company.....	1	6	61	41,915	412	101.7
Madison .....	Consolidated Coal Company, No. 3.....	1	8	148	166,245	1,809	91.9
	Consolidated Coal Company, Heintz Bluff ..	1	10	147	172,864	1,888	91.5
	Consolidated Coal Company, Troy.....	1	6	101	76,173	686	111.0
	Wolf Bros. Coal & Mining Company.....	1	7	103	92,110	824	111.7
Sangamon ...	Wilmington & Springfield Company.....	1	7	82	78,007	1,382	56.4
Fifth District..	Total.....	13	63	1,173	1,101,262	16,366	67.2
Clinton.....	Consolidated Coal Company .....	1	7	135	81,495	673	121.0
Jackson.....	St. Louis Ore & Steel Company.....	1	3	75	34,715	386	89.9
	St. Louis Ore & Steel Company, No. 4.....	1	6	95	76,517	884	86.5
	St. Louis Ore & Steel Company, No. 5.....	1	12	200	232,731	2,532	91.9
	Gartside Coal Company, No. 4.....	1	2	70	58,300	528	110.4
	Muddy Valley Mining & Mfg Company....	1	4	90	87,931	2,700	32.5
St. Clair.....	Consolidated Coal Company, Abbey No. 4..	1	4	98	122,632	2,141	57.2
	Consolidated Coal Company, Mentor.....	1	3	92	121,532	2,914	41.7
	Consolidated Coal Company, Knecht.....	1	4	45	38,584	452	85.3
	Consolidated Coal Company, Scheurman..	1	6	46	71,864	645	111.4
	Consolidated Coal Co., Gartside No. 4....	1	5	51	45,405	379	119.8
	Consolidated Coal Company, Glendale....	1	3	66	66,000	1,065	61.9
Williamson ..	Crystal Plate Glass Company .....	1	4	116	63,556	1,067	59.5

*Casualties for the Year.*—The number of accidents, fatal and otherwise, which have befallen employes about mines during the year, has been somewhat greater than in the year preceding. The increase in killed has been 11, or from 42 to 53; and the increase in injured 93, or from 201 to 294. The statistics of the killed and hurt in the mines of the State for the past year and a series of years, are as follows:

*Casualties and Production.*

YEARS.	Number killed.	Number injured.	Total number of men employed.	Total number of tons of coal produced.	FATAL CASUALTIES.		NON-FATAL CASUALTIES.	
					Number of employes to each life lost.	Number of tons of coal produced to each life lost.	Number of employes to each accident	Number of tons of coal produced to each accident
1883 .....	134	231	23,939	10,030,991	179.6	74,858	103.6	43,424
1884 .....	46	197	25,575	10,101,005	556	219,587	125.8	51,274
1885 .....	39	176	25,446	9,791,874	652.4	251,074	144.6	55,634
1886 .....	52	169	25,846	9,246,435	497	177,816	153.5	54,713
1887 .....	41	180	26,804	10,278,890	654	244,735	149	57,105
1888 .....	55	179	29,410	11,855,188	534.7	215,549	164.3	66,241
1889 .....	42	201	30,076	11,597,963	716.1	276,142	149.6	57,701
1890 .....	53	294	28,574	12,638,364	539.1	298,459	97.2	42,987
Totals .....	462	1,627	215,670	85,540,710	.....	.....	.....	.....
Averages....	57.7	203.3	26,958	10,692,589	466.8	185,153	132.5	52,575

As a result of the violent deaths in this industry during the year, 33 wives have been made widows and 75 children have been made fatherless. During the last five years, as a result of 243 deaths, 133 women and 392 children have been deprived of the support of husbands and fathers. The figures for each year are as follows:

YEARS.	Deaths.	Widows.	Fatherless children.
1886 .....	52	30	76
1887 .....	41	22	77
1888 .....	55	28	89
1889 .....	42	20	75
1890 .....	53	33	75
Totals .....	243	133	392
Yearly averages .....	48.6	26.6	78.4

Distributed by districts, and combined with tons of product and the whole number of employes, the fatal accidents of the year present the following numbers and ratios:

DISTRICTS.	Number of employes.	Killed.	Number of tons mined.	Tons per death.	Employes per death.
First.....	8,256	16	2,308,326	143,958	516
Second.....	4,099	5	1,002,600	200,520	820
Third.....	5,171	10	2,375,970	237,597	517
Fourth.....	5,685	11	3,716,464	337,860	517
Fifth.....	5,361	11	3,240,004	287,273	487
The State.....	28,574	53	12,638,364	238,460	539

What may be termed the normal death rate in this industry for a series of years and by districts, as related to the tons of product, and the number of men employed, may be inferred from an examination of the two succeeding tables:

*Number of Employes to one man killed—By districts and years.*

	1883.		1884.		1885.		1886.		1887.		1888.		1889.		1890.	
DISTRICTS.	Deaths.	Employes.	Deaths.	Employes.	Deaths.	Employes.	Deaths.	Employes.	Deaths.	Employes.	Deaths.	Employes.	Deaths.	Employes.	Deaths.	Employes.
First.....	79	936	11	728	10	746	14	544	14	565	19	454	14	644	16	516
Second.....	1	3,211	6	603	3	1,130	6	600	5	814	5	983	3	1,499	5	820
Third.....	18	226	12	418	6	369	11	443	5	981	10	525	6	853	10	517
Fourth.....	16	276	9	531	13	381	9	577	3	987	8	636	8	709	11	517
Fifth.....	20	234	8	518	7	632	12	381	14	356	13	426	11	521	11	489
The State.....	134	179	46	556	39	652	52	497	41	654	55	535	42	716	53	539

\* In the Braidwood disaster of 1883, 69 miners were drowned by the flooding of a mine.

*Number of tons mined to one man killed—By districts and years.*

	1883.		1884.		1885.		1886.		1887.		1888.		1889.		1890.	
DISTRICTS.	Deaths.	Tons.	Deaths.	Tons.	Deaths.	Tons.	Deaths.	Tons.	Deaths.	Tons.	Deaths.	Tons.	Deaths.	Tons.	Deaths.	Tons.
First.....	79	31,583	11	227,943	10	251,938	14	166,196	14	191,916	19	151,463	14	180,747	16	143,958
Second.....	1	1,309,322	6	127,390	3	241,026	6	117,454	5	213,606	5	258,637	3	362,616	5	200,520
Third.....	18	88,062	12	161,073	6	301,901	11	138,040	5	356,279	10	219,212	6	341,725	10	237,597
Fourth.....	16	195,523	9	311,576	13	201,230	9	305,535	3	856,097	8	356,818	8	395,604	11	337,860
Fifth.....	20	99,546	8	266,029	7	303,143	12	162,226	14	155,239	13	202,888	11	251,316	11	294,546
The State..	134	78,424	46	219,587	39	251,074	52	177,816	41	250,705	55	215,585	42	276,142	53	238,460

There has been no general catastrophe in the mines of the State since 1883, when 69 miners were drowned by the flooding of a mine at Braidwood and 10 were killed at Coulterville by an explosion. Aside from these the miscellaneous other accidental deaths in that year were 55, and, during the seven years since, the number of killed has ranged from this number to 39 in 1885, with an average of 48 deaths per annum for a term of eight years.

In the foregoing tables are grouped not only the actual number of deaths, but the data affording a comparison of deaths with total product, and total employed. From these it appears that although the absolute number of deaths was smallest in 1885, the relative number was smallest in 1889, when there was both a greater number of tons mined and a greater number of men employed for each man killed than in 1885, or any other of the eight years.

An analysis of the causes of the fatal accidents which have occurred during the past year is found below:

*Fatal Casualties—By Causes.*

CAUSES.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Totals.
Blast discharges.....	.....	.....	1	.....	2	3
Boiler explosion.....	.....	.....	.....	1	.....	1
Cages.....	.....	1	1	1	1	4
Explosion of fire-damp.....	.....	.....	.....	2	.....	2
Falling coal or rock.....	15	1	8	5	7	36
Pit-cars.....	1	.....	.....	2	.....	3
Railroad cars.....	.....	.....	.....	.....	1	1
Suffocated with gas.....	.....	3	.....	.....	.....	3
Totals.....	16	5	10	11	11	53

*Fatal Casualties—By Occupations.*

OCCUPATION.	DISTRICTS.					TOTALS.	PER CENT.
	First.	Second.	Third.	Fourth.	Fifth.		
Cager .....					1	1	1.89
Drivers .....	2			1		3	5.66
Engineer .....				1		1	1.89
Helpers .....				2		2	3.78
Laborers .....					2	2	3.78
Loader .....				1		1	1.89
Mine foreman .....		1				1	1.89
Miners .....	14	2	9	2	8	35	66.03
Pit-boss .....			1			1	1.89
Roadmen .....		2				2	3.78
Timbermen .....				4		4	7.54
Totals .....	16	5	10	11	11	53	100.00

A corresponding classification of the non-fatal accidents showing the causes of the injuries received, gives the following results:

*Non-Fatal Casualties—By Causes.*

CAUSES.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Totals.
Blast discharge .....			3	4		7
Burned with powder .....		1	2		1	4
Cages .....		2	2	1		5
Coal screen shaker .....					1	1
Coal chute on surface .....				1		1
Coal flying from blast .....		1				1
Explosion of re-damp .....				3		3
Falling coal or rock .....	59	24	21	39	53	196
Falling over coal .....				1		1
Falling iron .....				1		1
Falling down shaft .....			1			1
Falling from trestle .....		2				2
Gas explosion .....					4	
Kicked by mules .....		2	1	1		4
Pick .....		1		1	1	3
Pit-cars .....	15	6	5	13	9	48
Powder explosion .....	1				5	6
Surface cars .....				6		6
Totals .....	75	39	35	71	74	294

The noticeable feature of these tables of causes is the preponderance of accidents from the falling of rock or coal. This is the miner's principal exposure as shown by reference to the statistics of a number of years tabulated as follows:

*Per cent. of total Deaths and Injuries caused by falling roof or sides—By years and districts.*

YEARS.	DISTRICTS.										THE STATE.	
	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.			
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.
1890.....	91	81.3	44	56.9	45	64.4	82	53.7	85	70.6	347	66.7
1889.....	68	70.6	32	68.7	35	57.1	32	53.1	76	63.2	243	63.8
1888.....	77	76.5	39	71.8	50	50	26	50	42	47.6	234	61.9
1887.....	50	74	31	87.1	45	64.4	43	60.5	52	63.5	221	68.8
1886.....	45	73.3	28	50	40	55	42	61.9	66	69.6	221	63.8
1885.....	41	63.4	34	55.9	31	58.1	50	74	59	64.4	215	64.2
1884.....	68	64.7	25	76	54	68.5	42	66.6	54	61.1	243	67.5
1883.....	57	68.4	22	59	80	78.7	63	52.3	62	35.5	234	59.8
Totals.....	497	72.4	255	65.5	380	63.9	390	56.8	496	64.8	2,008	64.5

These figures are especially conclusive for the reason that they represent the experience in the various districts for eight consecutive years, omitting only the exceptional events in 1883, and thus afford a basis broad enough to neutralize the fluctuations of single years. This exhibit shows that of the 2,008 accidents, fatal and otherwise, which have occurred in the mines of the State during eight years, 64.5 per cent. have been occasioned by the falling of roof or sides. The highest percentage of accidents from this cause is 72.4 and is found in the first district, where the coal is low and generally near the surface, with which conditions the roof is usually more faulty. The lowest average is in the fourth district where opposite conditions prevail.

The statistics of accidents in English mines show a much smaller percentage arising from this cause, and a correspondingly greater proportion due to the explosion of fire-damp, from which the mines of this State are as yet comparatively

free. The comparison is shown in the following percentages, those for British mines being derived from the reports of the Mine Inspectors of England for the years 1875 to 1885 inclusive:

CAUSES.	Per cent. of deaths in English mines.	Per cent. of all acci- dents in Illinois mines.
From explosion of fire-damp.....	23.57	1.53
From falls of roof or sides.....	40.77	65.50
From all other causes.....	35.66	33.97

The final classification of the reported accidents of the year is based upon the nature of the injuries received by those who were not fatally hurt, and is presented herewith:

*Non-Fatal Casualties—Nature of Injuries.*

INJURIES.	DISTRICTS.					TOTALS.	PER CENT.
	First.	Second.	Third.	Fourth.	Fifth.		
Ankles injured .....	2	.....	.....	2	3	7	2.38
Arms broken.....	2	5	.....	1	2	10	3.4
Arms injured.....	1	1	1	1	.....	4	1.36
Backs injured.....	10	3	3	6	8	30	10.21
Bodies injured .....	9	7	8	19	24	67	22.78
Chest injured.....	.....	.....	.....	.....	1	1	.34
Collar-bones broken.....	2	.....	.....	5	2	9	3.06
Eyes put out .....	.....	1	.....	.....	.....	1	.34
Faces injured. ....	1	1	2	.....	.....	4	1.36
Feet injured.....	4	2	4	10	1	21	7.14
Fingers broken. ....	.....	.....	.....	2	.....	2	.68
Fingers cut off .....	.....	1	.....	2	.....	3	1.02
Fingers injured. ....	.....	.....	.....	.....	2	2	.68
Hands injured.....	2	2	.....	1	2	7	2.38
Heads injured.....	4	2	1	.....	4	11	3.74
Hips injured .....	3	1	1	1	.....	6	2.04
Internally injured .....	.....	.....	.....	1	.....	1	.34
Legs broken .....	27	4	12	8	10	61	20.75
Legs injured .....	6	5	1	7	10	29	9.87
Noses broken.....	.....	.....	.....	2	.....	2	.68



*Non-Fatal Casualties.—Concluded.*

INJURIES.	DISTRICTS.					TOTALS.	PER CENT.
	First.	Second.	Third.	Fourth.	Fifth.		
Ribs broken.....				1		1	.34
Ribs injured.....	1					1	.34
Shoulders broken.....					2	2	.68
Shoulders injured.....	1	2	2		3	8	2.73
Toe broken.....		1				1	.34
Toe cut off.....		1				1	.34
Wrists injured.....				2		2	.68
Totals.....	75	39	35	71	74	294	100.00

The following further details, in regard to the persons injured, are gathered from the reports of the several inspectors.

*First District.*—Of the 75 men injured in this district, 47 were married men, having 229 persons dependent upon them, and they lost an average of 59 days, though at the date of the report 15 of them had not yet recovered. Twenty-seven men had legs broken, 12 of whom had not recovered July 1. The 15 who had recovered lost an average of 74 days each, and one of them was laid up 180 days. Another of these men had both legs broken, and had not recovered July 1.

*Second District.*—Of the 39 men injured, 21 were married, and had 102 persons dependent upon them. They lost an average of 47 days each. Four men had legs broken, and one, in addition to the broken leg, was otherwise so badly hurt that he lost 300 days. The average time lost by the four men with broken limbs was 140 days each. Two of these men were married, and had 12 persons dependent upon them.

*Third District.*—Out of 35 men injured, 24 were married men, with 102 people dependent upon them, and they lost an average of 66 days each. Three men had not yet recovered at the time of the report, one of whom had a foot amputated and died five weeks after being injured. Of the other two, one had a leg amputated. Twelve men had broken legs, and lost an average of 116 days each. Seven married men lost an average of 130 days each, and had 37 persons dependent upon them. One man was laid up 270 days, and had five in his family.

*Fourth District.*—Of the 71 men injured in the fourth district, 53 were married men, and had 239 dependents. Two of them had not recovered at the date of the report, one of whom had seven and the other three persons dependent upon them. Eight men had legs broken, and lost an average of 80 days each. Three were married, and lost an average of 75 days each, and had 20 persons dependent upon them.

*Fifth District.*—Forty-three of the 74 men injured in this district were married men, with 167 persons dependent upon them, and they lost an average of 26 days each. Four of these had not recovered July 1, but had lost 39 days each, and had 20 persons dependent upon them. Ten of these men had legs broken, four of whom had not recovered July 1. The other six lost an average of 81 days. Two of them were married, and lost an average of 105 days, and had 12 persons dependent upon them.

*The State.*—Of the 294 men injured in the mines of the State during the year, 188 were married men, with a total of 839 people dependent upon them. The injuries sustained occasioned a total loss in time of 7,331 days, or an average of 39 days each. Sixty-one of these men had their legs broken, 19 of whom had not recovered at the time of this report. The 42 whose recovery is reported, suffered a total loss of 4,011 days' labor, or an average of 95 days each. Twenty-one of them were married, and there were in all 115 persons dependent upon them for support.

This concludes the digest of the statistics of coal mines in Illinois for 1890, gathered and reported by the inspectors of mines. The reports of each of these officers, with further statistical details for each mine and each county, are found in the pages following the State summary presented on the next page.

*Statistical Summary, showing the Number, Character, Product, etc., of the Collieries of Illinois, for the year ending July 1, 1890—By Districts.*

DISTRICTS.		MINES,			MINERS, WORKING TIME, POWDER AND ACCIDENTS.										PRICES, PRODUCTS AND VALUES.				MACHINE MINING.																									
Number of counties.		Number of mines.			Shipping mines.		Mines in local trade.		New mines and mines re-opened.		Abandoned mines.		Number of miners and other employes.			Average number days worked.		Number of kegs of powder used in mining.		Killed.		Cas- ualties.		Survivors.		Average value of coal per ton at the mines.		Aggregate value of the total product at the mines.		Number and kinds in use.		Product of ma- chines—tons.		Number of men employed.										
													Miners in summer.		Miners in winter.		Other em- ployees.		Boys em- ployed un- der ground.		Average number days worked.		Number of kegs of powder used in mining.		Killed.		Cas- ualties.		Survivors.		Average price paid per ton for min- ing.		Number of tons of coal (2,000 pounds) produced.		Average value of coal per ton at the mines.		Aggregate value of the total product at the mines.		Harrison. Legg. Others. .		Product of ma- chines—tons.		Number of men employed.	
First.....	5	79	37	42	10	7	5,529	6,342	1,916	825	158	15,786	16	75	10	19	\$0 81.22	2,303,325	\$1 30.2	\$2,949,107	14	4	19	89,414	224																			
Second.....	11	254	32	222	32	42	2,719	3,298	801	121	156.2	10,241	5	39	4	19	89.17	1,042,600	1 47.7	1,481,291	12	...	...	20,000	80																			
Third.....	9	273	98	180	46	19	2,827	4,162	1,009	172	154	74,940	10	35	6	15	67.98	2,375,970	1 06.48	2,530,027	6	...	...	55,854	50																			
Fourth.....	17	137	55	82	47	4	2,095	3,327	2,358	123	214	64,369	11	71	7	9	58.33	3,716,464	87.29	3,243,929	128	3	821	1,615,453	1,614																			
Fifth.....	15	193	110	83	41	21	2,072	2,977	2,384	124	172.9	69,910	11	74	6	13	51.08	3,240,004	81.13	2,628,582	54	...	115	1,101,262	1,173																			
Totals ....	57	936	327	609	176	93	15,242	20,106	8,468	*865	.....	235,246	53	294	33	75	.....	12,638,364	\$1 01.935	\$12,882,936	214	7	45	2,581,983	3,141																			
Averages..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	167	.....	.....	.....	.....	.....	\$1 08.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....						

\* The number of boys included in the number of other employes.

† Based on 884 mines.

‡ Based on 9,036,169 tons of coal, being the total tons mined by hand and paid for by the ton.

§ Kangley 3, Sperry 4.

|| Chouteau 17, Ingersoll 4.

|| Chouteau 9, Yock 6.

## FIRST DISTRICT---1890.

MR. JOHN S. LORD,

*Secretary of the State Bureau of Labor Statistics, Springfield, Ill.*

SIR: In compliance with section twelve of an act of the General Assembly, providing for the health of persons employed in the coal mines of Illinois, I herewith submit the seventh annual report of the coal mines in the First Inspection District, for the year ending June 30, 1890.

The present report contains tabulated statements of the number of mines, shipping and local; the number of tons produced by each; the miners employed in summer and winter; the boys and other employes around the mines; the number of days wrought at each mine, with an average for each county producing coal in the district; the price of hand mining, and the value of the coal at the mine; the quantity of powder used for blasting; the number of mining machines and men employed in connection with them; the rate of wages paid to each class, and the number of tons produced by them; and a record of the casualties, fatal and non-fatal, which have occurred during the year.

The following summaries are presented for the district:

Number of mines in operation during the year.....	79
Number of shipping mines.....	37
Number of local mines.....	42
Number of new mines.....	10
Number of abandoned mines.....	7
Number of miners employed (winter).....	6,342
Number of other employes, including 325 boys.....	1,916
Total number of employes.....	8,258
Average number of working days.....	158
Average price paid for hand mining.....	\$0 81.22
Average value of coal per ton at the mine.....	\$1 30.2
Number of tons of coal produced.....	2,303,326
Aggregate value of the total product.....	\$2,999,107
Number of kegs of powder used.....	9,791
Number of coal-mining machines in use.....	27
Number of tons of coal produced by machines.....	89,414
Number of employes operating the machines.....	224
Number of fatal accidents.....	16
Number of non-fatal accidents.....	75
Total number of accidents.....	91

Number of employes to each fatal accident.....	515.7
Number of employes to each non-fatal accident .....	110
Number of tons of coal produced for each fatal accident.....	143,958
Number of tons of coal produced for each non-fatal accident.....	30,711
Number of fatal accidents in pillar-and-room work.....	6
Number of fatal accidents in long-wall work.....	10
Number of non-fatal accidents in pillar-and-room work.....	25
Number of non-fatal accidents in long-wall work.....	50

On comparing the summaries of last year with the summaries of the present year it will be seen that although the number of mines in operation has increased in the district, the number of tons produced, the number of men employed and the average number of days worked, have all decreased during the present year. The decrease in the average days worked is due to several causes, first, the protracted strike of 1889 which extended two, and in a portion of the district, more than three months into the present fiscal year; second, the difficulty met with by the operators in securing trade after starting up, and lastly, the exceedingly mild winter which greatly reduced the amount of coal required for both railroad and merchant trade.

*New Mines put in Operation during the Year.*—In Grundy county, Henry Kay, about four miles north of Morris; in Kankakee county, Thomas Treasure, about two miles northeast of Clark city; in Livingston county, the Pleasant Hill Coal Co., about three miles south of Streator; in LaSalle county, Howe & Co., about two miles northwest of Streator, and James Cain at Deer Park Glen, on the Vermilion river; in Will county, the Chicago, Wilmington and Vermilion Coal Co., N shaft at Braidwood.

*New Mines, and Mines not in Operation During the Year.*—In Grundy county, the Chicago, Wilmington and Vermilion Coal Co. has sunk and is developing a new shaft, named the "O." The Wilmington Mining and Manufacturing Co. has commenced operations on the new No. 4 mine at Diamond. In LaSalle county, Rockwell mine, belonging to the LaSalle County Carbon Coal Co., has not been opened since the strike.

*Abandoned Mines.*—In Livingston county, Howe & Co., formerly J. D. Kerns, have permanently abandoned their mine on account of the river's breaking into it. Six other small mines mentioned in county schedules have also been abandoned.

*Escapement Shafts Put Down During the Year.*—In Grundy county, the Wilmington Star Coal Co., Coal City; Henry Kay and Thomas E. Goode, Morris; in Livingston county, the Pleasant Hill Coal Co., at Streator. In LaSalle county, Emerson Hakes, at Rutland, is sinking a new hoisting shaft, and will use the old one for an escapement. Price & Jones, Streator; Samuel McClairry and Charles Scott have both made new escapements at Kangley. In Will county the Chicago, Wilmington and Vermilion Coal Co., at the "N." mine, Braidwood.

*Improvements Made During the Year.*—In Grundy county, the Star Coal Co. has put in four tubular boilers and two Norwalk compressors in connection with the boilers. Two water-heaters have been placed, one of them an exhaust, the other a live steam heater of the Baragwanath type.

This plant has been placed at the No. 2 mine, Coal City, with the intention of having all the mining done by machines. The Chicago, Milwaukee and St. Paul Coal Co., Braceville, has put in a new fifteen-foot fan at the No. 3 mine in the place of the twelve-foot one, which was burned down, which will enable the company to circulate a larger volume of air in the mine, and will also assist in ventilating No. 2 mine when required. In Livingston county, the Chicago, Wilmington and Vermillion Coal Co. has put in a small electric plant, for pumping water from a depression in the workings of No. 3 mine. At No. 1 mine of the same company, in LaSalle county, two electric motors have been put in to run the Sperry electric mining machines, and to light the main portions of the mine. The Star Coal Co., at Kangley, has also placed a small electric plant at No. 1 mine, for handling water. The C., W. & V. C. Co., at its No. 1 mine, Streator, has taken out the eight-foot Murphy fan, and put in its place a ten-foot Cyclone fan, which has improved the sanitary condition of the mine greatly. The Union Coal Co., Peru, has put in a new pair of coupled engines of larger dimensions for hoisting. At Cahill's mine, Peru, the tower has been rebuilt. At Oglesby mine, new guides have been put in both sides of the shaft.

*Labor Difficulties During the Year.*—On the miners resuming work after the strike, at a reduction of seven and one-half cents per ton, the other employés underground were informed that their wages would be reduced also. This reduction they resisted, and it seemed for a few days that the end had not come, as the drivers stubbornly refused to work until the old rates were granted. The company conceded the old rates to the drivers, but refused the other men, informing them if the new rate did not suit them they could find other employment. On settling with the drivers, the companies of the Wilmington coal-field informed them that ten hours would be required of them for a day's work, an increase of half an hour per day over the year previous; it was also customary in the larger mines around Streator, when working steady, for all the company hands to quit work on Saturday at 4 P. M., they receiving a full day's pay for the same. Being pressed to fill orders shortly after starting up, the companies wished to abolish this old-time custom, and cause the employés to work up to the usual quitting time. This the drivers refused to do, and a suspension which lasted a week was the result, at the end of which time the miners, being well organized, and seeing both parties stubborn, held a meeting and agreed to make Saturday a half holiday throughout the year. This satisfied the drivers, and they all went back to work, and are still working under the same terms. In the month of December, the machine men were informed that they would be paid by the ton, or square foot, for undercutting, loaders to receive thirty cents per ton for blasting, loading and timbering. This offer was refused, but in a few days an agreement was reached, loaders getting thirty-five cents per ton, and other machine men being paid by the day. This settlement was for the Sperry machine, at No. 1, Streator. At Coal City, the machine men running the Kangley machines were informed in the month of April that all hands would be

paid by the ton, which offer was refused, and the men quit work; in two days, however, a satisfactory agreement was reached, to last until the first of May, when the machines would be taken out to put in heavier hauling gear. As it is customary in this district to settle prices, etc., in the month of May of each year, special efforts were put forth by the executive board of the Miners' Association to have a joint convention of the operators' and miners' representatives of the State, and for this purpose a call was issued, asking both parties to meet at Chicago on the 28th of April. The purpose of the executive committee in calling this meeting was to have the scale of prices for mining recently adopted at Columbus, Ohio, brought before the operators of this State, and agreed to, if possible. Their efforts were futile, as none of the large operators from the south put in an appearance, although a meeting was had several times afterward on that account. In the latter part of May the miners and operators of this district met in Chicago, and after a good deal of controversy reached a settlement for six months, at last year's prices, with a provisional clause in the contract for the following six months, which reads as follows:

"It is hereby mutually agreed that if at any time during the year ending May 1, 1891, there should be a general advance paid per ton for mining coal in the several mining districts in the State of Illinois, with which the said party of the first part competes in the general market, over and above the prices paid per ton for mining in the said districts during the past winter, then in such case the said party of the first part will make the same advance per ton for mining, and will advance the wages for underground labor in such amount as to preserve the proportions now existing between the present price of mining and such wages."

This clause two of the large operators did not present to their miners in their contract, namely the Star Coal Co., with mines at Coal City and Kangley, and the La Salle County Carbon Coal Co. In its place they substituted the following: That they would pay last year's price up to November first, and from that time to May first, an advance of seven and one-half cents per ton. This their miners agreed to, and all are now working in the district, with the exception of the Coal Run Coal Co., at Streator. The trouble between the miners and operators is the price paid per yard for entry work. The company claims that it has paid through the last year thirty-five cents per yard more than other operators, and as competition is close it can do so no longer, while the miners claim that there is so much more refuse to handle, that it requires the extra price paid to recompense them for their labor, the difficulty not being adjusted at the end of the fiscal year.

*Fires.*—The fan house and machine shops were burned down Nov. 5, 1889, at No. 3 mine, Braceville. The fire started in the machine shop. Also on Jan. 11, 1890, all the top works of Padmore, Love & Co. were burned down. The fire originated from furnace ashes.

*Accidents.*—During the year sixteen fatal accidents have occurred, and with one exception they took place at the working face of the miner's room and were occasioned by falling rock. In seventy-five per cent. of these cases the rock was known to be dangerous. Sixty-two and one-half per cent. have occurred where the long-wall method is adopted, and only thirty-seven and one-half per cent. where the pillar-and-room is adopted, so that the two systems have changed relative positions in this respect for this year.

*Fatal Casualties—First District.*

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widower.	Children.	Cause of accident.
1889.									
Sept. 14	Vinchence, Don...	34	Miner....	Diamond....	1..	1			Falling rock in room.....
" 14	Macona, Pat.....	28	Miner....	Braidwood..	1..	1			Falling rock in room.....
Oct. 3	Susing, Matthew...	25	Miner....	Kangley....	1..	1			Falling rock in room.....
Nov. 13	Siddons, Alfred...	19	Driver....	Streator....	1..	1			Run over by pit-car.....
" 16	Burns, Joseph....	21	Miner....	Godley....	1..	1			Falling rock in room.....
Dec. 14	Wargo, John F....	30	Miner....	Streator....	1..	1			Falling rock, face of entry..
1890.									
Jan. 3	Berto, John.....	45	Miner....	Braidwood..	1..	1	5		Falling rock near face room.
" 30	Lewis, Howell....	44	Miner....	Braceville..	1..	1	3		Falling rock in room.....
" 30	Reese, Enoch....	27	Miner....	Braceville..	1..	1			Falling rock in room.....
Feb. 10	Anderson, Thomas.	37	Miner....	Streator....	1..	1			Falling rock in room.....
Mar. 4	Tonaso, Martino...	30	Miner....	Diamond....	1..	1			Falling rock, face of entry...
" 25	Pudlas, Otto....	15	Driver....	Coal City....	1..	1			Falling rock in entry.....
April 7	Carter, William...	45	Miner....	Kangley....	1..	1			Falling rock in room.....
" 9	Solsby, Thomas...	34	Miner....	Streator....	1..	1			Falling rock, face of room...
" 10	Porterfield, Peter.	24	Miner....	Coal City....	1..	1	1		Falling rock in room.....
June 27	Junstack, Anton...	35	Miner....	Diamond....	1..	1	6		Falling rock in roadway.....
					10	6	10	19	

RECAPITULATION.

Residence.	No.	Occupation.	No.	Cause.	No.	Percent.
Braceville.....	2	Miners.....	14	Falling rock.....	15	93.75
Braidwood.....	2	Drivers.....	2	Pit-cars.....	1	6.25
Coal City.....	2					
Diamond.....	3					
Godley.....	1					
Kangley.....	2					
Streator.....	4					
Totals.....	16		16		16	100.00

Of the deaths above given 9 were killed instantly; 4 died within a few hours; one lived 3 days; one 6 days, and one 2 months.

Six of these men were employed by the Chicago, Wilmington and Vermilion Coal Company; 4 by the Star Coal Company; 3 by the Wilmington Mining and Manufacturing Company; 2 by the Chicago, Milwaukee and St. Paul Coal Company; and 1 by the Coal Run Coal Company.



## Non-Fatal Casualties.—First District.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Character of Injury and Cause of Accident.	Time lost—days.
1889.								
Sept. 14	Kern, Charles.....	26	Kangley .....	1			Ankle bruised by pit-cars .....	14
" 20	Leba, Joseph.....	30	Streator .....	1			Leg broken by pit-cars.....	60
" 23	Mitchell, Thomas.....	20	Kangley .....	1			Hips bruised by pit-cars.....	20
" 24	Montgomery, James.....	32	Coal City .....	1			Leg broken by falling rock.....	90
" 27	McGahey, Andrew.....	18	Godley .....	1			Back injured by falling rock.....	30
Oct. 1	Bundy, Samuel.....	34	Streator .....	1			Body injured by falling rock.....	60
" 7	Neilson, Charles.....	37	Gardner .....	1			Collar bone broken by falling coal.....	90
" 8	Jennings, William.....	35	Streator .....	1			Leg broken by falling rock.....	90
" 11	Jones, Thos. S.....	35	Braceville.....	1			Back injured by falling rock.....	30
" 17	Bidnor Andrew.....	31	Kangley .....	1			Leg injured by falling rock.....	30
" 17	Saunders, Henry.....	40	Peru .....	1			Internally injured by falling coal.....	120
" 17	Bell, James.....	42	Clark City.....	1			Arm injured by falling rock.....	30
" 22	Kutchies, John.....	25	Streator .....	1			Leg broken by falling rock.....	90
" 22	Dole, Joseph.....	63	Oglesby .....	1			Foot injured by falling rock.....	31
Nov. 6	Armstrong, Geo.....	34	Streator .....	1			Body injured by falling rock.....	20
" 8	Kubiz, Stephen.....	30	Diamond.....	1			Arm broken by falling rock.....	70
" 8	Ferris, Thomas.....	32	LaSalle.....	1			Spine injured by falling coal.....	*
" 12	Bremskie, Mat.....	28	Kangley .....	1			Leg broken by falling rock.....	60
" 13	Oquier, Olivia.....	26	Peru .....	1			Leg broken by falling rock.....	90
" 30	Dennison, Alex.....	21	Oglesby .....	1			Leg broken by pit-cars.....	90
Dec. 7	Brown, John.....	40	Godley .....	1			Foot injured by falling rock.....	42
" 9	Borta, Joseph.....	35	Godley .....	1			Leg broken by falling rock.....	+
" 17	Gacterno, Babilisto.....	40	Gardner .....	1			Leg injured by falling rock.....	21
" 18	Janofska, Ant.....	20	Godley .....	1			Arm broken by pit-car.....	30
" 18	Boyd, Jacob.....	45	Streator .....	1			Leg broken by falling rock.....	+
" 23	Simpson, Jos.....	29	Godley .....	1			Hand and side bruised by falling rock.....	90
1890.								
Jan. 2	McMasters, John.....	40	Streator .....	1			Leg broken by falling rock.....	180
" 11	Alban, Castella.....	24	Clark City.....	1			Leg broken by pit-car.....	30
" 11	Dunn, James.....	33	Oglesby .....	1			Collar bone and ribs broken by falling coal.....	90
" 11	Kratofel, John.....	18	Braidwood .....	1			Leg and face injured by pit-car.....	30
" 24	Mihava, Jacob.....	16	Braidwood .....	1			Leg broken by falling coal.....	60
" 25	Hufford, Chas.....	20	Godley .....	1			Foot injured by falling rock.....	30
" 28	Cherry, Thos.....	20	Braidwood .....	1			Leg broken by pit-cars.....	60
" 29	Parsons, James.....	16	Godley .....	1			Body injured by falling rock.....	7
" 30	Scott, Oswald.....	52	Braceville.....	1			Hips injured by falling rock.....	21
Feb. 1	Coughlin, Jos.....	34	Oglesby .....	1			Leg broken by falling rock.....	90
" 2	Ormio, And.....	30	Diamond.....	1			Body injured by falling rock.....	35
" 8	Truman, Fred.....	40	Oglesby .....	1			Leg and feet bruised by falling rock.....	60
" 13	Kosisk, Mike.....	39	Oglesby .....	1			Body injured by falling coal.....	60
" 16	McFarlan, Wm.....	50	Diamond.....	1			Body injured by falling rock.....	35
" 26	Bisoux, John.....	45	Braceville.....	1			Hips injured by falling rock.....	28
Mch. 5	Padget John.....	18	Streator .....	1			Foot injured by pit-car.....	21
" 11	Arbut, Paul.....	34	Oglesby .....	1			Leg broken by falling rock.....	90
" 13	Hisko, George.....	25	Streator .....	1			Back injured by falling rock.....	45
" 14	Newton, Jonathan.....	46	Streator.....	1			Leg and collar bone broken by falling rock.....	+
" 18	Ferrington, Frank.....	17	Streator .....	1			Ankle bruised by pit-cars.....	35
" 22	Kamitz, And.....	22	Streator .....	1			Head injured by falling coal.....	60
" 22	Lindsay, Wm.....	21	Oglesby .....	1			Back and leg injured by falling coal.....	30
" 22	McVeigh, John.....	47	Diamond.....	1			Hand crushed by falling rock.....	+
" 22	Flannigan, Geo.....	33	Streator .....	1			Head injured by falling rock.....	+
" 31	Crowley, John.....	25	Streator .....	1			Leg broken by falling rock.....	63
Apr. 8	Nohava, Jacob.....	42	Braidwood .....	1			Leg injured by falling rock.....	30
" 11	Dorwan, Wm.....	19	Streator .....	1			Head injured by falling rock.....	28
" 11	Miller, Mike.....	30	Streator .....	1			Back and hips injured by falling rock.....	42
" 12	Kelleman, John.....	39	Peru .....	1			Shoulder injured by falling rock.....	28
" 12	Cosgrove, P.....	45	Peru .....	1			Ribs crushed by falling coal.....	90
" 14	Elliner, Jos.....	24	Diamond.....	1			Leg broken by falling rock.....	63
" 16	Nor-husa, Telona.....	32	Clark City.....	1			Head injured by falling rock.....	70
" 21	Hawley, Jas.....	46	Braceville.....	1			Leg broken by falling rock.....	+
" 22	Cunningham, Geo.....	22	Godley .....	1			Leg injured by falling rock.....	30
May 3	Nicholas, Nick.....	21	Gardner .....	1			Leg broken by pit-car.....	+
" 8	Sterling, Thomas.....	30	Fairbury.....	1			Face and arms burned by premature discharge.....	20
" 24	Munray, Jno.....	32	LaLalle.....	1			Leg broken by fall of coal.....	+
" 28	McAllister, Hector.....	16	Streator .....	1			Leg broken by pit-cars.....	+

*Non-Fatal Casualties.—Concluded.*

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Character of Injury and Cause of Accident.	Time lost— days.
June 2	Hamanicke, Jno.....	35	Streator ...	1 ..	4	Body and hips injured by falling rock	†
" 6	Pollek, Mark.....	40	Oglesby....	1 ..	6	Body injured by falling coal and rock.	†
" 10	Pruisa, Edward.....	35	Bra eville..	.. 1 ..	..	Leg broken by falling rock.....	†
" 13	Bowler, And.....	36	Streator ...	1 ..	..	Back injured by falling rock.....	†
" 13	Broll, Jos.....	39	LaSalle....	1 ..	..	Back injured by falling coal.....	†
" 13	Chambers, Jno.....	35	Braceville..	.. 1 ..	..	Back and face injured by falling rock.....	†
" 18	Zazer, Miche.....	40	Oglesby ...	1 ..	4	Leg broken by pit-car.....	†
" 19	McMasters, Jno.....	30	Braceville..	1 ..	3	Legs broken by fall of rock.....	†
" 19	McCluskey, And.....	36	Coal City ..	1 ..	4	Leg broken by pit-car.....	†
" 21	Sandusky, P.....	30	Oglesby ...	.. 1 ..	..	Leg broken by fall of coal.....	†
" 27	Gordan, Mike.....	26	Streator ...	1 ..	2	Back injured by pit-car.....	†
	Totals.....			47	28 135		

\* Permanently disabled.

† Not yet recovered, unable to work, July 1, 1890.

‡ Not yet recovered, hand amputated.

NOTE.—One man permanently disabled, 20 men unable to work July 1, 1890, 54 men recovered, after having lost an average of 53 days each.

Of the 27 who had broken legs, 12 had not recovered up to July 1st; the other 15 lost an average of over 74 days' time; one was laid up 180 days; so a broken leg may safely be estimated to involve a loss of time of from three to six months.

Of the 47 married men, 32 are reported recovered, having lost an average of 56 days each; 149 persons depended on these men for subsistence; the other 15 not yet (July 1, 1890) recovered having 80 persons dependent upon them for living.

## RECAPITULATION OF NON-FATAL ACCIDENTS.

Residence.	No.	Casualties.	No.	Per cent.
Braceville.....	7	Falling rock.....	46	61.33
Braidwood.....	4	Falling coal.....	11	14.67
Clark City.....	3	Falling coal and rock.....	1	1.33
Coal City.....	2	Pit-cars.....	16	21.33
Diamond.....	5	Blast discharge.....	1	1.34
Fairbury.....	1			
Gardner.....	3			
Godley.....	8			
Kangley.....	4			
LaSalle.....	3			
Oglesby.....	11			
Peru.....	4			
Streator.....	20			
Totals.....	75	Totals.....	75	100.00

Character of Injury.	No. of men.	Per cent.	Occupation.	Num- ber.	Name of Company, Firm or In- dividual by which Employed.	Num- ber.
Ankle injured.....	2	2.67	Drivers.....	12	Chi., Milw. & Vermilion C. Co..	29
Arm broken.....	2	2.67	Miners.....	59	Chi., Milw. & St. Paul Coal Co..	7
Arm injured.....	1	1.33	Roadmen....	2	Oglesby Coal Company.....	7
Back injured.....	10	13.3	Trapper....	1	Star Coal Company.....	6
Body injured.....	9	12	Water bailer	1	Wil. Mining & Manufact'g Co...	4
Collar bone broken....	*2	2.67			Illinois Valley Coal Company ..	4
Face and arms injured.	1	1.33			Wil. & Gardner Coal Company.	3
Feet injured.....	4	5.33			Clark City Coal Company.....	3
Hand injured.....	2	2.67			LaSalle Coal Company.....	3
Head injured.....	4	5.33			James Cahill.....	3
Hips injured.....	3	4			Barra-kman & Son.....	2
Legs broken.....	†27	36			Diamond Coal Company.....	1
Legs injured.....	6	8			Union Coal Company.....	1
Ribs injured.....	1	1.33			Richard Evans.....	1
Shoulder injured.....	1	1.31			Walton Brothers.....	1
	75	100.00		75		75

\*One had ribs broken in addition.

†One had both legs broken, and one a leg and collar-bone both broken.

The following statistical tables give the detailed information of each mine in the district and a recapitulation by counties. .

Respectfully submitted,

QUINTIN CLARK,  
Inspector 1st District, Braidwood.

*Grundy County—First District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employed.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
C. M. & St. P., No. 2	Braceville	390	390	131	21	215½	20	2	2	\$0.87½	\$0.87½	156,507	\$1.95
No. 3		230	230	92	12	217	15	1	1	87½	87½	99,851	1.1
Wil. S. M. Co., No. 3	Coal City.	100	140	38	5	114	200	1	1	87½	98½	54,200	1.1
No. 5		95	95	24	1	167	250	1	1	87½	87½	38,560	1.1
Star Coal Co., No. 1	"	168	168	62	15	126	1	1	1	87½	87½	51,748	1.37
No. 2	"	114	114	52	14	136	1	1	1	87½	87½	50,357	1.37
Wil. M. & M. Co., No. 3	Diamond.	300	375	79	29	190	150	3	3	87½	87½	111,635	1.50
W. Gardiner Co., No. 1	Gardner.	90	140	54	6	186	265	3	3	87½	87½	40,630	1.35
Suffern Bros., No. 1	Coal City.	63	76	20	1	196	50	1	1	87½	87½	29,096	1.40
Chi. F. P. Co., No. 1	Morris.	20	20	3	1	150	1	1	1	1.16	1.16	5,971	1.80
Alex. Telfer, No. 4	"	10	12	1	1	253	1	1	1	1.16	1.16	3,937	1.70
Heather Woods	"	7	16	2	1	200	1	1	1	1.16	1.16	2,875	2.25
Lars Thursan	"	11	11	1	1	150	1	1	1	1.20	1.20	1,353	2.25
Cryer Bros., Eureka.	"	3	6	2	1	200	1	1	1	1.16	1.16	1,200	2.25
Frank Gilbride	"	1	4	1	1	120	1	1	1	1.20	1.20	1,100	2.25
George Wren	"	3	6	1	1	250	1	1	1	1.20	1.20	1,000	1.10
John Buck	"	5	5	2	1	200	1	1	1	1.20	1.20	1,000	2.25
Henry Kay*	"	2	6	1	1	180	1	1	1	1.20	1.20	800	2.25
Thomas Goode	"	3	3	2	1	210	1	1	1	1.20	1.20	700	2.00
John F. Nelson	"	1	4	1	1	200	1	1	1	1.20	1.20	687	2.25
Alex. Bell No. 1	"	2	1	1	1	120	1	1	1	1.20	1.20	500	2.25
Alex. Watson	"	3	1	1	1	150	1	1	1	1.20	1.20	450	2.25
George Blair	"	3	1	1	1	80	1	1	1	1.20	1.20	300	2.00
Totals (23 mines)...		1,605	1,829	563	95	956	7	17	17	\$0.88.5	\$0.88.5	654,017	
Averages						170.5							\$134.95

\* New mine.

† 3,110 tons mined by machines.

*Kankakee County—First District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employed.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Wil. Gardner C. Co.	Clark City.	190	220	60	10	175	8	...	3	\$0.87½	\$0.87½	61,770	\$1.35
Thomas Treasure*.	Essex.	6	1	1	100	...	...	...	...	1.05	1.05	690	2.00
Total (2 mines)....		190	226	61	10	138	8	...	3			62,460	
Averages						138				\$0.87.5	\$0.87.78		\$135.72

\*New mine.

*LaSalle County—First District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.....
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
C. W. & V. C. C. No. 1.	Streator ..	380	400	108	10	148	1,790	1	9	\$0 72½	\$0 72½	*179,109	\$1 20
2d	..	120	120	80	3	80	3,290	1	1	72½	72½	†32,962	1 20
Star Coal Co. No. 1.	Kangley ..	321	321	106	29	149	1,000	1	3	72½	72½	‡131,577	1 26
2d.	..	82	82	22	3	77	800	1	1	72½	72½	§32,908	1 26
LaSalle Co. C. C. Co.	LaSalle....	200	240	79	10	146	..	3	82½	82½	75,542	1 38	
Ill. Valley C. C. No. 1.	Oglesby ..	200	250	76	6	149	..	4	82½	82½	72,481	1 32	
Oglesby Coal Co.	..	149	175	65	15	147	5	7	82½	82½	51,141	1 30	
M. & H. Zinc Co.	LaSalle....	49	49	37	1	310	1,449	..	1	82½	82½	†79,890	1 32
Union Coal Co.	Peru .....	144	297	56	..	210	129	1	82½	82½	‡557,764	1 40	
James Cahill .....	..	130	160	49	8	176	..	3	†70	†70	56,379	1 40	
Coal Run C. Co.—	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Creek .....	Streator ..	130	130	35	4	180	350	1	..	72½	72½	65,739	1 12
Ill. R. V. C. M. Co.	..	33	30	11	1	110	50	1	..	72½	72½	†32,200	1 20
Platt Coal Co.	Seneca....	60	90	16	1	200	1	..	87½	87½	28,200	1 50	
Emerson Hakes .....	Rutland ..	30	30	12	..	200	60	..	90	90	11,400	1 25	
Carney Bros & .....	Marionville	8	20	4	..	150	..	1	00	1 00	5,500	2 00	
Charles Scott .....	Kangley ..	2	10	1	..	100	25	..	80	80	1,800	1 50	
Howe & Co. 3 mines*	Streator ..	11	29	9	1	190	150	..	72½	72½	10,953	1 32	
Price & Jones .....	..	4	12	2	..	260	35	..	72½	72½	5,000	1 40	
Robert Fairbairn .....	..	3	6	1	..	240	..	..	75	75	3,000	1 25	
Sam. McClairry .....	Kangley ..	2	6	1	..	200	40	..	75	75	3,000	1 50	
Sylvester Kimes .....	Streator ..	2	6	1	..	120	15	..	80	80	1,165	1 50	
Padmore, Love & Co.	Kangley ..	2	6	1	..	115	15	..	75	75	1,000	1 30	
E. B. Dawson .....	Streator ..	4	6	1	..	100	..	..	72½	72½	800	1 20	
James Cain * .....	Deer Park	8	8	2	..	100	25	..	90	90	600	1 40	
F. W. Eades .....	Streator ..	..	2	1	..	120	6	..	80	80	480	1 30	
Moses Baldwin .....	..	1	2	1	..	160	4	..	75	75	350	1 30	
Benjamin Davis .....	..	1	2	1	..	150	..	..	75	75	300	1 30	
Lukins & Cavanaugh	..	6	..	1	..	39	..	..	72½	72½	244	1 20	
James Clark b .....	Lowell....	1	1	1	..	75	..	..	90	90	240	1 50	
Four drift mines c ..	Streator ..	12	..	..	..	70	..	..	80	..	600	1 30	
Totals (35 mines)...	.....	2,095	2,490	781	92	..	9,239	4	32	.....	.....	926,214	.....
Averages.....	.....	..	..	..	..	149	..	..	\$0 76.46	\$0 76.46	.....	\$130.02	

\* New mines.

b Mine reopened.

c Only operated during the strike.

d Closed down for lack of trade.

Rockwell mine not in operation during the year.

†† Gross weight.

NOTE.—Output mined by machines or paid for by the day, not included in computing average price paid for mining.

e Records destroyed by fire July 5, 1890.

\* 15,000 tons mined by machines.

† 11,000 tons mined by machines.

‡ 52,670 tons mined by machines, and 27,220

tons mined by hand and paid for by the day.

§ 7,541 tons mined by machines.

¶ Miners paid \$2.50 per day.

*Livingston County—First District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	K e g s of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
C. W. & V. C. C. No. 3	Streator ..	380	420	166	82	152	1,650	2	7	\$0 72½	\$0 72½	165,408	\$1 20
River B. C. Co. 2 & 3.	" ..	95	95	21	1	120	210			72½	72½	23,491	1 31
Richard Evans.....	" ..	100	125	40	15	146	300		1	72½	72½	40,000	1 35
Lukins & Cavanaugh	" ..	62	73	22	2	128	350			72½	72½	24,620	1 20
Mars II & Simpkins.	" ..	70	55	14	4	240	264			72½	72½	33,000	1 32½
M. J. Barrackman & S	" ..	60	80	25	10	148	200		2	72½	72½	21,462	1 30
Wm. Howe & Co. .. a	" ..	15	25	10	2	150	140			72½	72½	14,000	1 33½
Pleasant Hill C. Co. *	" ..	10	10	5	1	150	40			72½	72½	4,000	1 20
Pontiac C. Co. ....	Pontiac ...	16	35	10	1	240	900			75	75	18,000	1 25
Walton Bros. ....	Fairbury .	20	40	14		211	1,156	1		72½	72½	16,361	1 40
Fairbury Coop. C. C.	" ..	10	10	6		283	460			72½	72½	11,142	1 20
Thomas Edwards. . .	Streator ..	2	5	1		100	12			1 00	1 00	1,020	2 00
Totals (13 mines).	.....	840	973	332	117	.....	5,582	2	11	.....	.....	372,504	.....
Averages .....	.....	.....	.....	.....	.....	159	.....	.....	.....	\$0 72.7	\$0 72.7	.....	\$1 23.4

\* New mine.

a Abandoned permanently in June, 1890.

*Will County—First District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	K e g s of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
C., Wil. & Ver. C. C. J	Baidwood	460	460	80	5	188	.....	2	4	\$0 87½	\$0 87½	169,706	\$1 25
" " " " M	" ..	250	250	63	2	227	.....	1	3	87½	87½	98,900	1 25
" " " " N	" ..	90	90	32	2	76½	.....			87½	87½	14,133	1 25
Coöp. Coal Co. ....	" ..	5	12	1	1	126	.....			1 00	1 00	3,100	2 00
Miners' Coal Co. ....	" ..	22	6	2	1	182	.....	1		1 00	1 00	2,232	2 00
John K. Stewart....	" ..	3	6	1	1	160	.....			1 10	1 10	2,000	2 00
Totals (6 mines)..	.....	810	821	179	11	.....	1	3	12	.....	.....	288,131	.....
Averages .....	.....	.....	.....	.....	.....	159.9	.....	.....	.....	\$0 87.74	\$0 87.74	.....	\$1 26.92

*Recapitulation by Counties—First District—1890.*

COUNTIES.	MINES.				MINERS.							PRICES AND PRODUCTS.					
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	No. of miners and mine employes.				Average number of days worked.	Number of kegs of powder used.	Killed.	Injured.	Average price paid per ton for hand-mining.	Total tons of coal mined.	Average value per ton at the mine.	Aggregate value of total product.
						Miners, sum-mer.	Miners, win-ter.	Other em-ployes.	Boys under ground.								
Grundy ...	23	9	14	1	2	1,605	1,829	563	95	170.5	956	7	17	\$0 88.5	654,017	\$1 34.95	\$882,612
Kankakee..	2	1	1	1	..	190	226	61	10	138	8	..	3	87.69	62,460	1 35.72	84,769
LaSalle....	35	13	22	6	4	2,084	2,490	781	92	149	9,239	4	32	76.46	926,214	1 30.2	1,206,120
Livingston	13	11	2	1	1	840	973	332	117	159	5,582	2	11	72.7	372,504	1 23.4	459,898
Will.....	6	3	3	1	..	810	824	179	11	159.9	1	3	12	87.74	288,131	1 26.92	365,708
Totals...	79	37	42	10	7	5,529	6,342	1,916	325	.....	15,786	16	75	.....	*2,308,326	.....	\$2,999,107
Averages	..	..	..	..	..	..	..	..	..	158	.....	..	..	\$0 81.22	.....	\$1 30.2	.....

Whole number of openings reported in 1889, seventy.

Number of new mines or places opened during the year, ten.

Number of mines exhausted or abandoned during the year, seven.

Whole number of openings reported for 1890, seventy-nine.

NOTE.—Coal mined by machines and coal mined and paid for by the day not included in computing the average prices paid for hand-mining.

\* Coal mined by machines, 83,411 tons; coal mined by hand and paid for by the day, 27,220 tons.

## SECOND DISTRICT.---1890.

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MR. JOHN S. LORD,

*Secretary of the State Bureau of Labor Statistics, Springfield, Ill.*

SIR: In accordance with section twelve of an act of the General Assembly, defining the duties of State Inspectors of coal mines, and providing for the health and safety of persons employed in the coal mines of Illinois, I have the honor of herewith submitting the seventh annual report as State Inspector of coal mines for the Second Inspection District, for the year ending June 30, 1890.

The present report contains the usual tabular information in regard to the number of mines, and production of each, with market value of said product; the number of miners, and prices paid for mining; and the number of other employés engaged in and about the various mines. A tabular statement is also given of the number of non-fatal accidents which have occurred during the year, with causes of the accidents and the extent of injuries received. The fatal accidents with causes are given in detail.

The following summary of the number of mines, miners and other employés, amount of coal produced, accidents and ratios, is presented for the year:

Number of mines—shipping.....	32
Number of mines—local.....	222
Total number of mines.....	254
Number of employés—miners.....	3,298
Number of other employés, including 121 boys under 16 years of age.....	801
Total number of employés.....	4,099
Number of tons of coal produced.....	1,002,600
Number of fatal accidents.....	5
Number of non-fatal accidents.....	39
Total number of accidents.....	44
Number of employés to each fatal accident.....	820
Number of employés to each non-fatal accident.....	105
Number of tons of coal produced to each fatal accident.....	200,520
Number of tons of coal produced to each non-fatal accident....	25,707.6
Number of tons of coal produced to each employé.....	244.6



*Comparative table of increase or decrease of product in each county, for the years ending June 30, 1889 and 1890.*

COUNTIES.	Tons produced in 1889.	Tons produced in 1890.	Tons increase.	Tons decrease.
Bureau.....	493,730	372,701	.....	121,029
Hancock.....	6,028	6,948	920	.....
Henry.....	101,716	98,734	.....	2,982
Knox.....	57,588	51,653	.....	5,935
Marshall.....	59,784	56,574	.....	3,210
McDonough.....	98,386	83,401	.....	14,985
Mercer.....	175,690	238,290	62,600	.....
Rock Island.....	47,363	39,696	.....	7,667
Schuyler.....	16,243	21,836	5,593	.....
Stark.....	19,171	18,672	.....	499
Warren.....	12,149	14,095	1,946	.....
Totals.....	1,087,848	1,002,600	71,059	156,307

Decrease, tons. .... 156,307

Increase, tons..... 71,059

Net decrease, tons..... 85,248

The counties of Bureau, Henry, Knox, Marshall, McDonough, Rock Island and Stark combined show a loss of 156,307 tons; and the counties of Hancock, Mercer, Schuyler and Warren, a gain of 71,059 tons. The net decrease in 1889 from the product of 1888 was 205,339 tons.

*Strikes.*—The year 1890 has been comparatively free from strikes or suspensions in this district, but those inaugurated at Spring Valley and Wenona, May 1, 1889, extended so far into the autumn of that year that their effect in reducing the output of coal has been more disastrous for 1890 than for the year in which they were commenced.

At Wenona the strike was practically ended about September 10, 1889, and the miners resumed work at once; but at Spring Valley a settlement was not reached until November 13, and then it was barely possible to reach the working face in these mines, owing to the "caving in" of the entries, occasioned by the total neglect of the underground workings during the twenty-eight weeks' strike. In fact, these mines were reduced to such a condition that it was not until March, 1890, that anything like their former capacity could be attained.

The only strike that has taken place in this district during the year occurred May 10, 1890, with the miners in the employ of the Lathrop Mining Company at Kewanee, Henry county. For several years past this company has paid for mining, 70 cents per ton in summer, and 80 cents per ton in winter, the change in prices being made in May and November respectively. The miners had been receiving 80 cents per ton up to May

1, 1890. At that time they were notified that the usual reduction would be made. The miners objected to this and demanded the usual winter price for the summer months. The company failing to comply with the demand, a strike was the result, commencing May 10, 1890. Nearly all the miners (about 35 in number) obtained work at the local mines, brick-yards, rolling mill, etc. Notwithstanding the fact that they had obtained other employment, they refused to declare the strike off, thereby making it impossible for the company to obtain other miners, and as a result the mine was abandoned and the pumps, rails, etc., taken out. The mine at best was not a profitable one, owing to the large number of "clay slips" running through the coal. The Haxtun Heater Company, on which the coal company depended largely for a market for its product, has secured coal lands near the mills, and will in future produce its own coal.

*New Mines.*—The following shipping mines have been put in operation during the year:

The Briar Bluff Coal Co.'s mine, at Briar Bluff, Henry county. This mine was formerly operated by A. W. Perry, but has not been in operation since 1884.

The Quincy Coal Co.'s shaft No. 31, at Colchester, McDonough county.

The Whitebreast Fuel Co.'s Shaft "A," at Ladd, Bureau county; the coal from shaft A was mined from the "top vein" (No. 7). The quality of the coal being unsatisfactory this seam was abandoned and the shaft is being sunk to the third vein, (No. 2).

This last named company, after a very liberal expenditure of time, money, patience and perseverance, has finally overcome the great difficulties encountered in sinking, and succeeded in piercing seam No. 2, three feet, seven inches thick, at a depth of 460 feet. Two shafts will be sunk to this seam, with an air-shaft between them.

The equipment of these mines when completed will be excellent; both winding engines are direct acting, cylinders 22 inches in diameter and 32 inch stroke; diameter of drum at shaft "A," 6 feet, at shaft B, 7½ feet. The winding ropes are steel 1½ inches in diameter.

Steam is supplied by a battery of five two-flue boilers, 44 inches in diameter and 24 feet long; a ventilating fan is already erected, 24 feet in diameter; propelled by two engines one attached direct to each end of the fan shaft.

The towers, engine rooms, boiler room, etc., are all roofed and sided with iron making the buildings practically fire-proof and extensive fires nearly impossible.

*Abandoned Mines.*—Shaft No. 4, operated by the Herdien Coal Co., at Galva, Henry county.

Shaft No. 28, operated by the Quincy Coal Co., at Colchester, McDonough county.

The steam slope operated by the Elmwood Coal Co., at Elmwood; the mine located in Knox county.

In the first two mines the coal was exhausted, but the Elmwood mine was abandoned because the coal could not be mined at a profit, owing to the number of "clay-slips," "horse-backs" and other irregularities running through the coal.

*Improvements.*—The most important improvements during the year have been made at Cable, Mercer county and at Loceyville and Spring Valley, Bureau county.

At the Coal Valley Mining Co's. shaft at Cable, new and larger hauling engines have been placed under ground, and the engine plane on the north side has been extended.

Two well constructed over-casts have been built for the purpose of equalizing the ventilation, and a new fan 15 feet in diameter has taken the place of the 8-foot fan formerly in use.

The Loceyville mine, which has been in the hands of a receiver for the last three years, has been purchased by the Chicago, Wilmington & Vermillion Coal Company. The shaft has been enlarged and a new 12-foot fan has been substituted for the small one; a new tower is being erected, larger pit-cars will be put in, and the capacity of the mine, at the very lowest estimate, will be doubled.

At shaft No. 2, Spring Valley, an over-cast has been constructed and another fan erected, making two fans now working on this mine. The air is now divided into four separate currents and the amount in circulation is more than doubled.

*Mining Machines.*—The Harrison mining machines have been experimented with at various points in this district during the last four or five years, but in every instance they have proved unsatisfactory. The last were taken out of the Chicago, Wilmington & Vermillion Coal Co's. mine at Seatonville, Bureau county, in April, 1890.

This act on the part of the Chicago, Wilmington & Vermillion Coal Company indicates very plainly that the Harrison machine as at present constructed, is not well adapted for the long-wall mining of Bureau county.

*Fatal accidents in detail for the year ending June 30, 1890.*—December 18, 1889, Andrew Ohme, aminer, aged 23 years, and single, was caught between a cross-timber and the cage between the upper and lower landings at No. 2 escapement shaft, Spring Valley, Bureau county. His back was broken by the force of the ascending cage, and he died from the injuries twelve hours after the accident. This accident was caused by the deceased attempting to jump from the cage at the lower landing when the cage was ascending the escapement shaft.

April 20, 1890, John Eustice, mine foreman, or pit-boss, aged 38 years, married; leaves a widow and six children.

Jacob Williamson, roadman, aged 39 years, married; leaves a widow and five children.

N. P. Akeyson, roadman, aged 37 years, married; leaves a widow and three children. These three men lost their lives while attempting to extinguish a mine fire in shaft No. 2, operated by the Spring Valley Coal Co. at Spring Valley, Bureau county.

The actual cause of death in this case was inhaling the fumes and gas given off by the fire, probably carbonic oxide (C. O.), known generally as "white damp."

This being the most lamentable accident that has occurred in this district since the inception of the present mining law, more than an ordinary notice is necessary.

From information gleaned from the most reliable sources, it appears that early on Sunday morning, between 2 and 3 o'clock, April 20, while part of the night force employed in shaft No. 2 were passing from the face of the workings along the intake air-course towards the bottom of the shaft, they discovered a "stopping" on fire. This was built of boards and packed with hay to make it air-tight, and located at the entrance to an abandoned roadway. They attempted to extinguish it by the best means at hand, but failing in this gave the alarm to John Patterson, the night foreman, who summoned his whole force of men and commenced the removal of the burning boards, timbers, hay, etc. In the meantime Mr. John Eustice, the foreman of the mine, had been notified and arrived on the scene and took charge of the work. After three or four hours hard work it was supposed the fire was practically under control, and Mr. Eustice became desirous of passing around to the lee side of the fire to learn if possible its extent. For this purpose he called for two volunteers to accompany him, and Williamson and Akeyson at once responded. They passed along the intake air-course to the bottom of the shaft (south side), passed across the shaft bottom to the north side, and the moment they did so they entered the return air-course and had to encounter the smoke and gas generated by the fire.

Their companions waited what they thought to be a reasonable time, and when they did not return raised an alarm and commenced the difficult task of finding the three men amid the smoke and gas given off by the fire. When found they were dead, and from the position in which their bodies were found (faces down, heads towards the shaft) and the distance they were apart it is reasonable to suppose that they were retreating towards the shaft when overcome. Williamson was found on the main north entry, 77 yards from the bottom of the shaft. Akeyson was found on the first east entry, 86 yards from the bottom of the shaft, and Eustice on the first east entry and 130 yards from the bottom of the shaft.

John Eustice had been the under-ground manager of the mine in which he lost his life since 1886 and had the confidence of the company. He was greatly and deservedly respected by the miners of Spring Valley for his uniformly fair dealing toward those under him.

One problem remains unsolved—how did this fire originate? That it was not the result of spontaneous combustion is almost certain, because

fires of this kind generally give timely warning of their approach by a gradual rising of the temperature until the ignition point is reached, thereby giving off an offensive smell that is unmistakable to those accustomed to mine fires. In this instance no such evidence was noticeable and the conclusion must be, that the wooden stopping was set on fire, either by accident or design.

May 13, 1890, Phillip Remele, a miner, aged 50 years, married; leaving widow and five children, had his back broken by a fall of roof at the face of his working place "drawing pillars" in the Briar Bluff Coal Co's. mine, at Briar Bluff, Henry county, and died from the injuries eight days after the accident. The attention of the deceased had been called to the dangerous appearance of the roof, he examined it and thought it safe, but it fell shortly after with the above result.

*Fatal Casualties—Second District.*

Date.	Name.	Age.	Occupation.	Residence.	Married. Single.	Widows. Children.	Cause of Accident.
1889. Dec. 18	Andrew Ohme.	23	Miner.....	Spring Valley.	1	1	Crushed by cage.....
1890. Apr. 20	John Eustice...	38	Mine Foreman.	Spring Valley.	1	1	Suffocated by gas.....
" 20	J. Williamson...	39	Roadman.....	Spring Valley.	1	1	Suffocated by gas.....
" 20	N. P. Akeyson.	57	Roadman.....	Spring Valley.	1	1	Suffocated by gas.....
May 13	Phillip Remele.	50	Miner.....	Briar Bluff...	1	1	Crushed by fall of rock..
	Totals.....				4	4	19

RECAPITULATION.

Residence.	No.	Occupation.	No.	Cause.	No.	Per cent.
Spring Valley.....	4	Mine Foreman.....	1	Suffocated by gas.....	3	60.
Briar Bluff.....	1	Roadmen.....	2	Crushed by ascending cage...	1	20.
		Miners.....	2	Falling rock.....	1	20.
Totals .....	5		5		5	100.

*Non-Fatal Casualties—Second District.*

Date.	Name.	Age.	Residence.	Married. Single. Children.	Character of injury and cause of accident.	Time lost, days.
1889.						
July 10	McGuningal, Bern'd...	55	Spring Val..	1..	1 Face burned, explosion missed shot.	35
" 25	Christopher, Lawr'ce.	23	"	1..	1 Hand crushed, thumb cut off, fall of rock	66
" 31	Morrill, David.....	20	Seatonville..	1..	1 Leg broken by fall of rock	150
Aug. 13	Kelley, Thos.....	17	"	1..	1 Leg broken and crushed by pit-car	300
" 16	Kitell, Geo.....	23	Loceyville..	1..	3 Hand bruised by descending cage	6
Sep. 10	Nesbit, Thos.....	21	Loding.....	1..	1 Body bruised, falling from tippie.	90
" 19	Tonkin, James.....	44	Cable.....	1..	6 Back injured by falling rock.	40
" 19	Haddick, J. L.....	17	"	1..	1 Finger cut off, between pit-car and roof.	34
Oct. 2	Larson, Aug.....	40	Kewanee....	1..	1 Toe cut off by falling rock.	30
" 14	Groye, Chas.....	28	"	1..	1 Arm broken by descending cage.	60
" 15	Angus, Wm.....	38	Cable.....	1..	5 Back bruised by falling rock.	34
" 22	Peterson, Efo.....	40	Seatonville..	1..	4 Body bruised by falling rock.	42
" 24	Valentine, Chas.....	29	Cable.....	1..	2 Arm broken, falling from trestle.	50
Nov. 5	Chalene, Carl.....	16	"	1..	1 Foot crushed between pit-car and side of entry.	40
" 8	Carlson, And.....	26	Galva.....	1..	1 Back injured by falling rock.	30
" 10	Eustice, John.....	38	Spring Val..	1..	6 Leg broken, between pit-cars	60
" 12	Brown, Asa.....	37	Gilechrist..	1..	4 Arm broken, shot from adjoining room.	50
" 30	Barrett, Henry.....	31	Colehester..	1..	2 Body injured by falling rock.	105
Dec. 13	Johnson, Chas. J.....	32	Galva.....	1..	1 Arm broken by falling coal.	45
" 16	Novek, Louis.....	33	Spring Val..	1..	2 Leg broken by falling coal.	50
1890.						
Jan. 2	Sanders, Moses.....	29	Seatonville..	1..	1 Arm hurt by falling coal.	6
" 3	Williams, Geo.....	40	"	1..	1 Leg injured by pick.	30
" 22	Crone, Wm.....	34	Colehester ..	1..	1 Hips bruised by falling rock.	120
Feb. 4	Hall, John.....	39	"	1..	6 Shoulders bruised by falling rock	34
" 18	Lilliman, J.....	17	Cable.....	1..	1 Eye put out by kick of mule.	50
Mar. 4	Graham, Wm.....	26	Ladd.....	1..	2 Shoulders and side bruised by falling rock.	20
" 5	Campbell, Chas.....	30	Spring Val..	1..	1 Body bruised by fall of rock.	30
" 10	McDonald, Ed.....	22	"	1..	1 Arm broken and shoulder dis- located by fall of coal.	90
" 10	Boyle, John.....	29	"	1..	1 Leg bruised by pit-cars.	14
" 17	Phillips, J. H.....	52	Cable.....	1..	5 Body bruised by fall of rock.	42
" 25	Valserano, N.....	30	Spring Val..	1..	1 Toe broken and foot bruised by falling coal.	14
" 27	Tuckey, Thos.....	23	"	1..	1 Head bruised by falling coal.	20
Apr. 5	Waugh, Chas.....	25	"	1..	1 Head bruised by falling coal.	14
" 7	Yarley, Jos.....	20	"	1..	1 Body bruised by kick of mule	6
" 8	Webber, Clin.....	22	"	1..	1 Leg bruised by pit-cars	35
" 8	Hickman, Thos.....	49	Rushville..	1..	8 Leg injured by falling rock.	30
" 16	Foran, Mike.....	28	Spring Val..	1..	2 Foot bruised by falling coal.	14
" 17	Proffit, Geo.....	19	"	1..	1 Body bruised by falling coal.	6
May 22	Ernowoski, Jno.....	38	Wenona.....	1..	1 Leg cut by falling rock.	60
				21 18 60		*

\* An average of 50 days to each man.

Of the 21 married men, each lost an average of 47 days; 102 persons were dependent on these men for subsistence.

Of the 4 men who had broken legs, each lost an average of 140 days. These men had 12 persons dependent on them for subsistence.

## RECAPITULATION OF NON-FATAL ACCIDENTS.

Residence.	No.	Casualties.	No.	Per cent.
Cable .....	7	Falling rock.....	15	38.50
Colchester.....	3	Falling coal.....	9	23.11
Gilchrist.....	1	Pit-cars.....	6	15.41
Galva.....	2	Decending cage.....	2	5.10
Kewanee.....	2	Kicked by mules.....	2	5.10
Loceyville.....	1	Falling from trestle.....	2	5.10
Ladd.....	1	Blast discharge; flying coal.....	1	2.56
Loding.....	1	Powder explosion.....	1	2.56
Rushville.....	1	Pierced with coal pick.....	1	2.56
Spring Valley.....	14			
Seatonville.....	5			
Wenona.....	1			
Totals.....	39	Totals.....	39	100.00

Character of injury.	No. of men.	Per cent.	Occupation.	Num- ber.	Name of company, firm or in- dividual by which employed.	Num- ber.
Arms broken.....	*5	12.82	Drivers.....	7	Spring Valley Coal Company...	14
Arms injured.....	1	2.56	Laborers.....	3	Coal Valley Coal Company.....	7
Backs injured.....	3	7.69	Miners.....	28	Chi. Wil. & Vermilion Coal Co.	6
Bodies injured.....	7	18	Pit-boys.....	1	Quincy Coal Company.....	3
Eye put out.....	1	2.56			Herdian Coal Company.....	2
Face burned.....	1	2.56			George Donald.....	1
Finger cut off.....	1	2.56			Stuhlsutz & Henry.....	1
Feet injured.....	2	5.13			Lathrop Mining Company.....	1
Hands injured.....	†2	5.13			Empire Coal Company.....	1
Heads injured.....	2	5.13			Whitebreast Coal Company.....	1
Hips injured.....	1	2.56			Kerr & Sons.....	1
Legs broken.....	4	10.26			Wenona Coal Company.....	1
Legs injured.....	5	12.82				
Shoulders injured.....	2	5.13				
Toe cut off.....	1	2.56				
Toe broken.....	1	2.56				
	39	100 00		39		39

\* One had arm broken and shoulder dislocated.

† One had thumb cut off.

The following are the tabular statements for each mine in the eleven coal producing counties of the district.

Respectfully submitted,

THOMAS HUDSON,

Inspector 2d District, Galva.

*Bureau County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Sp. Val. C. Co. No. 1.	Sp. Val..	300	350	76	11	150	...	...	...	\$0 82½	\$0 82½	94,034	\$1 35
" " " No. 2.	" " ..	180	...	40	...	85	...	...	...	72½	...	*12,881	1 35
" " " No. 3.	" " ..	350	350	65	9	120	...	4	...	82½	...	89,795	1 35
C. W. & V. C. Co.	Seatonville	300	100	50	2	140	...	1	...	82½	...	31,923	1 35
Sheffield Mining Co.	Loceyville	70	70	80	3	240	...	5	...	82½	...	60,000	1 25
H. W. Lloyd.	Sheffield..	100	150	25	...	155	...	1	...	82½	...	44,140	1 30
Peter Duncan.	" " ..	50	50	10	...	300	100	...	...	87½	...	19,000	1 75
Churchill & Hodgett	" " ..	...	14	...	...	300	10	...	...	87½	...	2,670	1 80
A. W. Walton.	" " ..	...	4	...	...	175	...	...	...	87½	...	1,510	1 80
George Heathcock.	Princeton.	5	6	1	...	250	120	...	...	1 00	1 00	3,281	1 75
William Smith.	" " ..	3	10	1	...	170	105	...	...	1 00	1 00	2,870	1 75
Whitebreast Fuel Co.	" " ..	1	2	1	...	80	23	...	...	1 00	1 00	800	1 75
W. H. Forrest.	Ladd.....	70	...	30	...	102	100	1	...	...	...	14,583	1 25
John Van Velzor.	Mineral...	2	8	1	...	185	20	...	...	87½	87½	1,550	1 75
William Brandt.	" " ..	1	6	1	...	125	10	...	...	87½	87½	800	1 75
Silas Riley.	Buda.....	4	8	2	...	150	...	...	...	87½	87½	1,114	2 00
Wm. Smith.	Neponset.	1	6	1	...	150	5	...	...	87½	87½	538	1 50
Tiskilwa.	Tiskilwa..	3	4	1	...	70	10	...	...	1 00	1 00	132	2 00
Totals (18 mines) ..	.....	1447	1152	391	34	...	576	4	21	...	...	\$372,701	.....
Averages .....	.....	...	...	...	...	174.8	...	...	...	\$0 82.2	\$0 83.29	.....	\$1 36.5

\* Mined from the "middle seam" from July 1 to the settlement of the strike in 1889.

† Mined from the "upper seam"; miners paid \$2.25 per day; product nearly all used for generating steam at the mine.

‡ Opened during the year; coal found unsatisfactory, and the mine abandoned.

§ 20,000 tons mined by machines.

*Hancock County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Augusta Coal Co.	Augusta ..	4	8	1	...	250	...	...	...	\$1 00	\$1 12½	2,800	\$1 62½
Samuel Jones	" " ..	4	7	1	...	190	...	...	...	1 12½	1 12½	1,800	1 75
Merideth Bros.	" " ..	2	6	...	...	100	...	...	...	1 12½	1 12½	1,490	1 75
Patrick Doyle.	" " ..	3	3	...	...	150	...	...	...	1 12½	1 12½	500	1 75
Jacob Marks	" " ..	2	4	...	...	120	...	...	...	1 12½	1 12½	368	1 75
Totals (5 mines) ..	.....	14	28	2	...	...	...	...	...	.....	.....	6,948	.....
Averages .....	.....	...	...	...	...	182	...	...	...	\$1 07.4	\$1 12.5	.....	\$1 70



*Henry County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Keas of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Lathrop M. Co., No. 7	Kewanee.	35	45	7	....	148	....	1	..	\$0 70	\$0 80	16,105	\$1 40
Wm. H. Lyle	"	8	20	12	....	238	....	..	..	87½	87½	5,200	1 50
Bernard Kirley	"	6	12	2	....	270	....	..	..	87½	87½	4,600	1 50
Stuhlsutz & Henry	"	4	12	1	....	250	....	1	..	87½	87½	3,840	1 50
Bates Bros.	"	4	8	1	....	150	....	..	..	87½	87½	1,956	1 50
Reinold Kempin	"	1	3	1	....	220	....	..	..	87½	87½	1,294	1 50
Jones & Lamb	"	4	6	1	....	180	....	..	..	87½	87½	1,260	1 50
Thomas Lester	"	2	4	....	....	160	....	..	..	87½	87½	1,040	1 50
Edwin Lamb	"	2	4	....	....	170	....	..	..	87½	87½	1,002	1 50
Martin & Tucker	"	2	4	....	....	200	....	..	..	87½	87½	962	1 50
Atkinson & Todd	"	2	4	....	....	200	....	..	..	87½	87½	900	1 50
J. R. Daniels	"	1	4	....	....	240	....	..	..	87½	87½	768	1 50
Libby & Phelps	"	1	5	1	....	160	....	..	..	87½	87½	767	1 50
Thos. Carter & Son.	"	2	2	1	....	175	....	..	..	87½	87½	395	1 50
George Mesmores	"	..	2	....	....	100	....	..	..	87½	87½	320	1 50
Herdien C. Co., No. 1	Galva	10	18	2	....	250	....	..	..	1 00	1 00	4,180	1 65
" " No. 4	"	18	....	2	....	41	....	..	..	80	....	1,096	1 40
" " No. 8	"	30	60	3	....	215	....	2	..	80	80	20,045	1 40
Union Coal Co.	"	7	13	2	....	210	....	..	..	87½	87½	2,093	1 50
James H. Murray	"	3	5	1	....	190	....	..	..	87½	87½	1,800	1 50
Eagle Coal Co.	"	3	8	2	....	167	....	..	..	87½	87½	1,213	1 50
Mowbrey & Laws	Atkinson	6	10	1	....	250	....	..	..	1 25	1 25	2,700	1 87½
Thomas Frew	"	2	6	1	....	150	....	..	..	1 25	1 25	987	2 00
Jame Kay	"	....	5	1	....	120	....	..	..	1 25	1 25	800	2 00
John Rochford	Hawley	1	3	1	....	180	....	..	..	75	75	522	1 50
Smith Hadsell	"	....	3	....	....	120	....	..	..	75	75	303	1 50
H. C. Finch	"	....	2	....	....	63	....	..	..	75	75	236	1 25
Phillip Murphy	"	....	2	....	....	60	....	..	..	75	75	167	1 25
George Wiatom	C'mbridge	2	8	1	....	200	62	..	..	1 12½	1 12½	1,533	2 00
Briar Bluff Coal Co.	Briar Bluff	30	30	7	1	270	245	1	..	80	80	20,250	1 50
Martin Peacock	"	....	2	....	....	100	4	..	..	87½	87½	260	1 50
Park & Hillier	Coal Vall'y	....	2	....	....	60	3	..	..	75	75	140	1 50
Totals (32 mines)		186	312	41	1	314	314	1	4	...	...	98,734	...
Averages		....	....	....	....	172.1	....	....	....	\$0 83.6	\$0 85.46	....	\$1 49.4

## Knox County—Second District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES. WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter. ...					Killed.	Injured.	Summer.	Winter.		
Elmwood Coal Co. . . . .	Elmwood.	30	35	12		190				*	*	10,250	\$1 25
James Dalton . . . . .			3			70					\$0 75	320	1 25
Pressed Brk & T. Co . . . . .	Galesburg	17	17	3		250				\$1 25	1 25	7,233	2 00
Ross & Woodward . . . . .		4	12	1		240				87½	87½	2,214	1 50
Essex & Son . . . . .		4	10	1		213	6			87½	87½	1,761	1 50
Patrick Milan . . . . .			7	1		150				87½	87½	1,600	1 25
Patrick Powers . . . . .		2	2	1		155				87½	87½	720	1 50
Chas. Pister & Co. . . . .	Wataga. . . . .	8	16	1		300				75	75	4,356	1 30
James Dusenbury . . . . .		4	11	1		220				75	75	2,040	1 25
J. H. Lindgren . . . . .		2	5			200				75	75	1,412	1 25
James Taylor . . . . .		1	4			200				75	75	1,040	1 25
Peter Frome . . . . .			2			100					75	580	1 25
Fred. Johnson . . . . .		1	6	1		120				75	75	520	1 25
William Campbell . . . . .			2			80					75	360	1 25
Gus. Rodell . . . . .		1	3			80				75	75	223	1 25
S. P. Peterson . . . . .			2			80					75	180	1 25
Andrew Johnson . . . . .			1			70					75	150	1 25
George Clifford . . . . .	Onelda . . . . .	5	18	2		200				75	75	3,053	1 50
James McGovern . . . . .		1	6	1		200				75	75	1,200	1 25
Owen Conley . . . . .		1	7	1		200				75	75	1,008	1 25
Charles Morgan . . . . .		1	6			160				75	75	800	1 25
T. W. Kimler . . . . .	Yates City	4	7	1		180				75	75	2,216	1 25
Frank Chrisman . . . . .		3	6	1		200				75	75	1,240	1 25
George Bowman . . . . .			4	1		80					75	412	1 25
James Nelson . . . . .	Knoxville.	5	5			180				1 00	1 00	920	1 62½
James Irwin . . . . .		2	5			160				1 00	1 00	840	1 62½
Samuel Hopper . . . . .		2	3			140				1 00	1 00	660	1 62½
William Flynn . . . . .		1	4			120				75	75	200	1 25
Eric Harkstrom . . . . .			4			100					75	200	1 25
William Fisher . . . . .		1	2			140				75	75	160	1 25
Andrew Olson . . . . .		1	1			130				75	75	120	1 25
G. W. Etcheson . . . . .	Maquon . . . . .		2			100					1 00	245	1 50
Nine drift mines . . . . .		10	22			179				75	75	13,390	1 00
Totals (41 mines) . . . . .		111	240	29		6						51,653	
Averages . . . . .						155.9				\$0 88.75	\$0 87.05		\$1 40

\*Miners paid by the yard, tonnage not computed in average wages of miners.

†Aggregate product of mines located in Victoria and Truro Townships.

*Marshall County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per for ton mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Wenona Coal Co ...	Wenona..	100	200	30	2	124	...	1	\$0 82½	\$0 82½	40,000	\$1 45	
Sparland Coal Co...	Sparland..	35	45	15	1	220	175	...	92½	92½	13,600	1 40	
S. W. Cartwright....	"	...	3	...	...	100	2	...	...	75	300	1 25	
Cyrus Wright.....	"	1	2	...	...	160	4	...	75	75	260	1 25	
Bernard Lannon....	"	1	1	...	...	100	2	...	75	75	144	1 25	
William Bough....	Henry.....	1	3	...	...	200	11	...	75	75	520	1 25	
William Horrocks...	"	...	3	...	...	150	8	...	...	75	412	1 25	
William Lopeman...	"	...	2	...	...	150	7	...	...	75	328	1 25	
Alex. Daniels.....	"	2	...	...	...	180	...	...	75	75	320	1 25	
John McFadyen....	"	...	2	...	...	160	...	...	...	75	250	1 25	
Joseph Moody.....	"	...	2	...	...	100	...	...	...	75	160	1 25	
John Kenney.....	"	1	1	...	...	120	3	...	75	75	140	1 25	
John Daniels.....	"	...	1	...	...	80	3	...	...	75	140	1 25	
Totals (13 mines)..	.....	141	267	45	3	215	...	1	...	...	56,574	.....	
Averages .....	.....	...	...	...	...	141.8	...	...	\$0 84.8	\$0 84.38	.....	\$1 42.74	

## McDonough County—Second District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Quincy C. C. No. 29 ..	Colechester	66	75	4	4	176	.....	.....	.....	\$1 12½	\$1 25	19,352	\$1 62½
.. .. 27 ..		36	44	5	6	206	.....	.....	1	1 12½	1 25	14,646	1 62½
.. .. 28 ..		52	61	5	5	119	.....	.....	1	1 12½	1 25	9,870	1 62½
.. .. 31 ..		54	66	4	5	136	.....	.....	1	1 12½	1 25	8,526	1 62½
Colechester Coal Co ..		40	50	4	2	202	.....	.....	1	1 12½	1 25	12,124	1 62½
John Myers ..		14	15	.....	1	200	.....	.....	.....	1 00	1 25	3,800	1 50
Louis Lewis ..		3	3	.....	.....	150	.....	.....	.....	1 00	1 25	800	1 75
John Hunter ..		2	5	1	.....	150	.....	.....	.....	1 00	1 25	720	1 75
Thomas Kipling ..		.....	2	.....	.....	50	.....	.....	.....	.....	1 25	40	1 50
William Kipling ..		.....	3	.....	.....	100	.....	.....	.....	.....	1 25	240	1 50
Newman Foster ..		.....	1	.....	.....	125	.....	.....	.....	.....	1 25	200	1 50
Samuel Moss ..		.....	2	.....	.....	50	.....	.....	.....	.....	1 25	200	1 50
William Hodgson ..		.....	2	.....	.....	125	.....	.....	.....	.....	1 25	200	1 50
Michael Humes ..		2	4	.....	1	120	.....	.....	.....	1 00	1 25	200	1 50
George Wakefield ..		1	3	1	.....	120	.....	.....	.....	1 00	1 25	200	1 75
Barney Cash ..		3	3	.....	.....	200	.....	.....	.....	1 00	1 25	760	1 75
Peter Whalen ..		2	2	.....	.....	100	.....	.....	.....	1 00	1 25	200	1 75
William Robinson ..		2	2	.....	.....	150	.....	.....	.....	1 00	1 25	1,056	1 75
Reid Gardner ..		3	5	1	1	175	.....	.....	.....	1 00	1 25	480	1 50
William Eckersley ..		1	1	.....	.....	150	.....	.....	.....	1 00	1 25	320	1 50
Moses King ..		2	4	.....	.....	150	.....	.....	.....	1 00	1 25	440	1 50
Baglin & Co. ....		4	5	.....	.....	100	.....	.....	.....	1 00	1 25	400	1 50
Lewis Atkinson ..		.....	4	.....	.....	150	.....	.....	.....	.....	1 25	480	1 75
William McIntosh ..		.....	1	.....	.....	50	.....	.....	.....	.....	1 25	40	1 50
William Hulson ..		.....	2	.....	.....	100	.....	.....	.....	.....	1 25	272	1 50
Michael Whalen ..		4	5	.....	.....	100	.....	.....	.....	1 00	1 25	360	1 50
W. D. Williams ..		1	3	.....	.....	100	.....	.....	.....	1 00	1 25	150	1 50
William Berry ..		2	3	.....	.....	125	.....	.....	.....	1 00	1 25	200	1 50
McClure & Co. ....		.....	3	.....	.....	100	.....	.....	.....	.....	1 25	150	1 50
Baumgardner & Co.		2	5	.....	.....	175	.....	.....	.....	1 00	1 25	175	1 50
James Heppenstall ..		1	2	.....	.....	150	.....	.....	.....	1 00	1 25	300	1 50
Stephen Justin ..		3	5	.....	.....	200	.....	.....	.....	1 00	1 25	1,200	1 75
James Roberts ..		.....	4	.....	.....	100	.....	.....	.....	.....	1 25	480	1 50
John Hood ..	Bushnell ..	2	2	.....	.....	150	.....	.....	.....	.....	1 25	400	1 50
Thomas Richey ..		.....	1	.....	.....	150	.....	.....	.....	.....	1 25	40	1 50
Sherman Thompson ..	Fandon ...	1	3	.....	.....	140	.....	.....	.....	1 00	1 25	280	1 50
Russell & Dull ..	Tennessee ..	2	4	.....	.....	160	.....	.....	.....	1 00	1 25	480	1 50
Francis Taylor ..	Blindville ..	2	2	1	.....	150	.....	.....	.....	1 00	1 25	600	2 00
Joseph Dodds ..		3	4	1	.....	165	.....	.....	.....	1 00	1 25	400	2 00
Wash. Smith ..	Macomb ..	2	2	.....	.....	60	.....	.....	.....	.....	1 25	40	1 50
E. C. Jones ..	Industry ..	1	2	.....	.....	150	.....	.....	.....	1 00	1 25	480	1 50
Jackson Gilligan ..		2	5	1	.....	180	.....	.....	.....	1 00	1 25	1,200	1 75
Richard Jones ..		1	1	.....	.....	140	.....	.....	.....	1 00	1 25	600	1 75
J. W. Wilson ..	Macomb ..	1	2	.....	.....	150	.....	.....	.....	1 00	1 25	300	1 50
Totals (41 mines).		313	423	28	25	.....	.....	3	.....	.....	.....	83,401	.....
Averages .....		.....	.....	.....	.....	136.3	.....	.....	.....	\$1.10	\$1 25	.....	\$1 62.4

*Mercer County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Coal Val. Mining Co.	Cable .....	142	225	114	25	163	2,800	..	3	\$0 95	\$0 95	124,795	\$1 75
	" .....	56	56	39	18	163	720	..	4	95	95	50,117	1 75
Co-op. Tile Co. ....	" .....	5	20	2	..	180	85	..	1	1 00	1 00	4,000	1 50
Charles Peterson...	" .....	1	10	1	..	180	65	..	..	87½	87½	1,825	1 50
Thomas B. Ellis....	" .....	2	6	1	..	160	25	..	..	87½	87½	1,045	1 50
Empire Coal Co.	Gilechrist..	90	90	31	8	222	2,521	..	1	70	75	45,306	1 15
Andrew Guthrie ..	" .....	..	..	..	..	120	23	..	..	..	75	480	1 25
Luke Frost .....	" .....	..	..	..	..	115	6	..	..	..	87½	420	1 25
Richard Ayers .....	" .....	..	22	1	..	80	12	..	..	..	75	230	1 25
Orrick Martin .....	Viola .....	1	6	1	..	200	84	..	..	75	75	2,000	1 50
G. W. Martin .....	" .....	1	6	1	..	180	80	..	..	75	75	1,640	1 25
Edward Boden .....	Fre-Emp'n ..	3	9	1	..	150	46	..	..	75	75	1,920	1 25
Barr & Docherty....	" .....	2	6	1	..	150	40	..	..	75	75	1,280	1 25
P. C. Peterson .....	N. Wind'sr ..	1	6	..	..	180	17	..	1	1 25	1 25	730	1 75
John P. Carlson .....	" .....	3	3	..	..	140	5	..	1	1 25	1 25	372	1 50
Isaac Brooks .....	" .....	..	3	..	..	100	8	..	..	..	1 25	240	1 75
Henry Fowler .....	Mil'r's'b'rg ..	1	3	..	..	170	..	..	..	1 00	1 00	440	1 50
Parker & Morris....	" .....	1	3	..	..	160	..	..	1	1 00	1 00	420	1 50
John Seannell .....	Alado .....	1	2	..	..	220	8	..	..	87½	87½	600	1 25
Robert Thompson..	" .....	1	2	1	..	150	..	..	1	1 00	1 00	300	1 75
Griffin Bros .....	Griffin .....	..	1	1	..	50	3	..	..	..	1 00	130	1 75
Totals (21 mines) ..	.....	311	463	195	51	..	6,548	..	8	..	..	238,290	.....
Averages .....	.....	..	..	..	..	154	..	..	..	\$0 89.8	\$0 90.7	..	\$1.61

*Rock Island County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Northern Mining Co.	Hampton..	15	22	9	...	220	280	...	...	\$1 00	\$1 00	6,338	\$1 75
Paul Guchert.....	...	...	4	1	...	100	4	...	...	...	1 00	424	1 75
Twomley & Lewis...	Coal Val'y	12	12	2	...	200	24	...	...	87½	87½	3,717	1 50
John Price.....	...	4	12	1	...	1 0	70	...	...	75	75	2,860	1 50
Michael Curry.....	...	2	6	1	1	185	42	...	...	85	85	1,900	1 50
Robert Summerson	...	1	5	1	...	210	12	...	...	75	75	1,050	1 50
Thomas Lees.....	...	...	23	...	...	90	...	...	...	75	75	280	1 50
Thomas Wooley....	...	...	23	...	...	80	...	...	...	75	75	130	1 50
Joseph Garland....	...	1	1	...	...	150	...	...	...	75	75	120	1 50
Silvis Bros.....	Carb'n C'ff	10	15	2	1	280	120	...	...	87½	1 00	3,844	1 62½
Silvis Bros.....	...	5	10	1	...	200	50	...	...	87½	1 00	1,602	1 62½
John H. Loding....	Loding...	8	16	1	2	220	150	...	...	87½	1 01	2,984	1 62½
John Hynd.....	...	4	12	1	1	240	95	...	...	87½	1 00	2,934	1 62½
George Donald....	...	6	6	1	...	170	40	1	1 00	1 00	1 00	2,220	1 50
E. C. Jamieson & Co.	...	1	12	1	...	150	50	...	...	87½	1 00	1,610	1 62½
William Allison....	...	5	9	1	...	160	12	...	...	87½	1 00	400	1 75
Fred Vonach.....	Milan....	2	8	1	...	200	...	...	...	75	75	1,284	1 50
William Parker....	...	1	5	1	...	190	14	...	...	75	75	904	1 50
David Walsh.....	...	...	4	1	...	120	...	...	...	...	75	620	1 50
Patrick McCarty...	...	...	2	...	...	80	...	...	...	...	1 00	120	1 50
John Zeigler & Co.	Rapids C'y	4	4	1	...	100	15	...	...	87½	87½	464	2 00
William Denbigh...	...	2	4	1	...	110	12	...	...	1 00	1 00	400	2 00
G. W. Griffin.....	Moline....	2	5	...	...	200	50	...	...	1 00	1 00	1,441	1 75
Heirs of Davenport estate.....	Rock Isl'd	6	18	3	...	135	82	...	...	1 00	1 00	2,050	2 00
Totals (24 mines)..	...	91	196	31	5	...	1,123	1	...	...	...	39,696	...
Averages.....	...	...	...	...	...	165.5	...	...	...	\$0 89.14	\$0 93.21	...	\$1 63.2

*Schuyler County—Second District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Bushville Coal Co...	Rushville.	15	15	6	...	200	367	...	...	\$0 65	\$0 65	10,262	\$1 00
John Kerr & Sons...	...	16	23	6	...	200	700	...	1	70	75	8,594	1 90
West & McMillan...	Ray.....	...	7	2	...	210	...	...	...	87½	87½	2,600	1 25
Henry Croxton....	Ptnt View	...	2	...	...	100	10	...	...	...	75	200	1 25
Croxton & Quin...	...	...	2	1	...	90	9	...	...	...	75	180	1 25
Totals (5 mines)...	...	38	48	15	...	1,086	...	1	...	...	...	21,836	...
Averages.....	...	...	...	...	...	166	...	...	...	\$0 69.7	\$0 71.8	...	\$0 99.47

## Stark County—Second District—1890.

Name of firm, com- pany or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners em- ployed.		All other em- ploys.	Boys employed under ground.	Days worked dur- ing year.	Kegs of powder used during year.	Cas- ualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
James Higbee.....	Wyoming ..	2	8	1	....	180	27	....	....	\$0 75	\$0 75	3,040	\$1 50
Robinson Bros.....	" ..	3	5	1	....	190	4	....	....	75	75	1,024	1 50
Thos. Stephenson...	" ..	2	5	1	....	160	13	....	....	75	75	1,022	1 50
Joseph Swanson...	" ..	2	3	1	....	180	3	....	....	75	75	880	1 25
William Essex.....	" ..	2	3	1	....	150	4	....	....	75	75	460	1 25
Foster Coulson .....	" ..	1	3	...	....	160	...	....	....	75	75	340	1 25
John McCarty.....	" ..	...	1	...	....	80	...	....	....	...	75	140	1 25
George Watson.....	Toulon.....	2	7	1	....	200	27	....	....	75	75	2,022	1 25
Oscar Bass.....	" ..	1	2	1	....	190	13	....	....	75	75	940	1 25
William Newton....	" ..	1	2	...	....	180	...	....	....	75	75	320	1 25
Aaron Newton.....	" ..	1	1	...	....	170	...	....	....	75	75	221	1 25
Henry Newton.....	" ..	1	1	...	....	150	...	....	....	75	75	200	1 25
Peter Harberger....	" ..	1	2	...	....	80	...	....	....	75	75	160	1 25
John Scott.....	Modena.....	2	3	1	....	200	2	....	1 00	1 00	75	960	1 50
Higbee & Beaver....	" ..	1	3	1	....	150	6	....	75	75	580	1 50	
Thomas Watt.....	" ..	1	3	1	....	100	2	....	1 00	1 00	75	240	1 50
Nathan Snare.....	" ..	1	2	...	....	90	4	....	75	75	238	1 25	
Daniel Phenix.....	Bradford...	1	5	1	....	200	50	....	87½	87½	920	1 75	
W. J. Eagleston....	" ..	...	4	1	....	80	24	....	...	75	277	1 50	
A. W. Higbee.....	L'mbardv'le	1	6	1	....	210	75	....	1 00	1 00	1,535	1 75	
James Green.....	Osceola.....	2	6	1	....	180	...	....	87½	87½	1,320	1 50	
John Catton.....	West Jersey	1	3	...	....	195	20	....	87½	87½	736	1 70	
C. E. Berg.....	Lafayette...	1	2	1	....	185	...	....	75	75	664	1 50	
H. H. Oliver.....	Elmira.....	...	4	1	....	120	...	....	...	87½	430	1 50	
Totals (24 mines).	.....	30	84	16	....	274	...	....	...	...	...	18,672	.....
Averages .....	.....	...	...	...	....	157.5	...	....	\$0 80.9	\$0 80.9	...	...	\$1 46.3

## Warren County—Second District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
John Sinecock .....	Alexis ....	2	6	1	3	260	60	...	...	\$0 87½	\$0 87½	2,160	\$1 75
William Cook .....	.....	1	4	1	...	150	18	...	...	87½	87½	733	1 75
John Selkirk .....	Monmouth	2	5	1	...	200	15	...	...	1 12½	1 12½	1,309	1 75
John Moulton .....	.....	2	5	1	...	150	7	...	...	1 12½	1 12½	1,220	1 75
Andrew Welch .....	.....	2	2	...	...	180	...	...	...	1 25	1 25	480	2 00
Thos. Swan .....	.....	2	4	1	...	175	...	...	...	1 25	1 25	421	2 00
Thos. Hubbard .....	.....	...	3	...	...	100	...	...	...	1 25	1 25	400	2 00
Packard & Little .....	Roseville.	1	5	...	...	200	...	...	...	1 25	1 25	580	2 00
Daniel Bird .....	.....	2	2	1	...	120	...	...	...	1 25	1 25	300	2 50
Joseph White .....	.....	1	3	...	...	130	...	...	...	1 25	1 25	248	2 00
Thos. Lee .....	.....	...	2	...	...	120	...	...	...	1 25	1 25	200	2 00
J. T. Bragg .....	.....	...	2	...	...	100	...	...	...	1 25	1 25	135	2 50
John Zinn .....	Swan Cr'k	2	2	...	...	190	...	...	...	1 25	1 25	420	2 00
Joseph Wilson .....	.....	1	2	...	...	130	...	...	...	1 25	1 25	220	2 00
Joseph Simpson .....	.....	1	2	...	...	120	...	...	...	1 25	1 25	210	2 00
Thos. Wearmouth .....	.....	...	2	...	...	100	...	...	...	1 25	1 25	125	2 00
J. W. Booten .....	.....	...	2	...	...	80	...	...	...	1 25	1 25	120	2 00
Alfred Romine .....	.....	2	3	...	...	200	...	...	...	1 25	1 25	490	2 00
Bird Lieurance .....	Youngst'n	2	3	1	...	150	...	...	...	1 12½	1 12½	370	2 00
Thos. Lee, Jr. ....	.....	2	2	...	...	120	...	...	...	1 25	1 25	250	2 00
Henry Smith .....	.....	1	2	...	...	110	...	...	...	1 25	1 25	180	2 00
Bryner & Cane .....	Kirkwood.	1	6	1	...	208	...	...	...	1 37½	1 37½	584	2 25
Thos. Caldwell .....	Avon .....	3	3	...	...	200	...	...	...	1 25	1 25	860	1 75
John Robinson .....	.....	1	4	...	...	150	...	...	...	1 25	1 25	720	1 75
Thos. Delany .....	.....	1	3	...	...	100	...	...	...	1 25	1 25	300	1 75
Willis Clayton .....	.....	1	1	...	...	150	...	...	...	1 25	1 25	280	1 75
R. J. Hoy .....	P'airie C'y	4	5	...	...	160	...	...	...	1 25	1 25	780	1 75
Totals (27 mines) .....	.....	37	85	8	2	100	...	...	...	...	...	14,095	.....
Averages .....	.....	...	...	...	...	150.1	...	...	...	\$1 14.5	\$1 15.6	...	\$1 87.8



*Recapitulation by Counties—Second District—1890.*

COUNTIES.	MINES.				MINERS.						PRICES AND PRODUCTS.						
	Number of mines.	Shipping mines.		Mines in local trade.	New mines.	Abandoned mines.	No. of miners and other employes.				Average number of days worked.	Number of kegs of powder used.	Cas-ual-ties.	Average price paid per ton for hand-mining.	Total tons of coal mined.	Average value per ton at the mine.	Aggregate value of total product.
		Miners, sum-mer.	Miners, win-ter.				Other em-ployes.	Boys under-ground.									
Bureau.....	18	7	11	2	1	1,447	1,152	391	34	174.8	576	4	21	\$0 82.9	*372,701	\$1 36.5	\$509,060
Hancock ..	5	1	4	1	2	14	28	2	....	182	.....	...	...	1 10.8	6,948	1 70	11,809
Henry. ....	32	5	27	8	6	186	312	41	1	172	314	1	4	0 84.74	98,734	1 49.4	147,578
Knox .....	41	1	40	5	10	111	240	29	....	155.9	6	...	...	87.56	†51,653	1 40	72,313
Marshall ..	13	2	11	..	1	141	267	45	3	141.8	215	..	1	84.51	56,574	1 42.74	80,758
McD'n'ugh.	44	5	39	2	11	313	423	28	25	136.3	.....	..	3	1 20.2	83,401	1 62.4	135,470
Mercer. ...	21	5	16	2	2	311	463	195	51	154	6,548	..	8	90.4	238,290	1.61	384,016
Rock Isla'd	24	3	21	2	3	91	196	31	5	165.4	1,122	..	1	91.9	39,696	1 63.2	64,775
Schuyler ..	5	3	2	..	1	38	48	15	....	166	1,086	..	1	71.13	21,836	99.47	21,722
Stark .....	24	..	24	2	1	30	84	16	....	157.5	274	..	..	80.9	18,672	1 46.3	27,326
Warren....	27	..	27	8	4	37	85	8	2	150.1	100	..	..	1 15.26	14,095	1 87.8	26,464
Totals....	254	32	222	32	42	2,719	3,298	801	121	.....	10,241	5	39	.....	1,002,600	.....	\$1,481,291
Averages	...	...	...	...	...	...	...	...	...	150.2	.....	...	...	\$0 87.5	.....	\$1 47.7	.....

Whole number of openings reported in 1889, two hundred and sixty-four.

Number of new mines or places opened during the year, thirty-two.

Number of mines exhausted or abandoned during the year, forty-two.

Whole number of openings reported for 1890, two hundred and fifty-four.

\* Coal mined by machines, 20,000 tons; coal mined and paid for by the day, 4,583 tons.

† Coal mined and paid for by the yard, 10,250 tons.

## THIRD DISTRICT---1890.

MR. JOHN S. LORD,

*Secretary of the State Bureau of Labor Statistics, Springfield, Ill.*

SIR: In conformity with the requirements of section twelve of the mining laws of this State, I herewith submit to you the seventh annual report for the Third Inspection District.

This report embraces the following subjects in the order given: The number of new openings, with a brief mention of the most important of them; a tabular statement showing the output of coal for each county compared with last year, also showing the amount of coal raised and the number of employes for every fatal and non-fatal accident; labor difficulties between operators and miners; machine-mining; legislative recommendations; a report of fatal and non-fatal accidents, etc.

*New Openings.*—There are forty-six new openings reported for this year. Deducting the nineteen mines abandoned, leaves 273 mines to report for this year. This great increase in the number of mines is mainly due to the discovery of quite a number of very small openings located along the bluffs of the Illinois river and its tributaries, extending from near Monterey to Summum, in Fulton county, and visited lately for the first time; their distance from railroad connection varying from five to twelve miles. During my visit in this section of the county, three miles east of Summum, I came across a seam of the finest bituminous coal I have yet seen in Illinois; the coal is entirely free from sulphur and other impurities commonly found in the coal seams of this State; is twenty-eight inches high, and the roof and floor are very favorable for mining, especially for the long-wall system.

One of the most important new openings is that of the Athens Coal Company, Athens, where they have lately completed sinking and equipping a new mine. The mine is located one-half mile east of the old shaft. At a depth of 185 feet they struck the same seam of coal they had been operating in the old mine, but under a more favorable roof. The new mine has been fitted up with a pair of engines, each 16x30 inches, direct acting, manufactured by the Litchfield Manufacturing Co., and two boilers, each 42 inches by 26 feet. The walls of the engine and boiler house are built of brick, and the mine when completed may be classed among the best equipped in the district. Its hoisting capacity, should necessity demand it, would be equal to 1,200 tons of lump coal per day.

Adam Sholl, of Peoria, has opened a new shaft a quarter of a mile north of his old mine. The machinery of this mine, which is first-class, was brought from over the river, from his mine at East Peoria, which was opened out two years ago and abandoned six months ago, they having struck a washout of the coal seam.

A new coal company has been formed at Astoria, named the Astoria Coal Co. This company has been operating a small drift bank for local trade during the last eight months, but they have completed the sinking of a coal shaft three-quarters of a mile north of town on the line of the C., B. & Q. Railroad. They contemplated having their machinery and plant in position ready for railroad business by Sept. 15, 1890. They claim to have at least sixty acres of this valuable coal seam to work out.

Louis Grant & Son, Pekin, have just completed the sinking of a shaft three-quarters of a mile southwest of their old mine. This mine is simply for the Pekin local trade, being located one mile from town and close to one of the principal roads leading into the city. The equipment of the mine is good.

The Wabash Coal Co., of Dawson, has commenced to sink a new coal shaft one-half mile west of the town of Athens; it contemplates fitting up a very extensive mine so as to enable it to do a large business. The White Breast Fuel Co., of Iowa, has lately bought out the Emmerson & Skinner Coal Mine, located at Dunfermline. It is expected that this company will be in position to do a large amount of business, as the coal field is very extensive and the mine equipment is able to at least handle one thousand tons per day.

*Output of Coal.*—The production of coal in this district last year attained its highest record since the Mine Inspection Service was inaugurated. The total output of 1890, when compared with 1888 and 1889, shows an increase of 183,849 tons over the former and 325,588 tons more than the latter year. Vermilion county alone shows an increase of 167,098 tons compared with the output for the same county in 1889. All the counties in this district give more or less of an increase this year except Woodford, yet the coal business in this and other States has been greatly depressed this year owing to the extremely mild weather of last winter. The cause for the increase in output in this district is mainly due to the extra demand for coal last summer in helping to supply the trade of the northern coal-field during the time of the strike, which lasted from May up to September, 1889, and in some mines until October. Quite a number of the striking miners from Streator, LaSalle and Spring Valley worked in the mines of this district during the strike at those places.

The following tabular form shows the output of coal for each county compared with the previous year:

COUNTIES.	1890.	1889.	Increase.	Decrease.
Vermilion.....	704,509	537,411	167,098	
Fulton.....	404,417	366,577	37,840	
Peoria.....	482,725	454,731	27,994	
Menard.....	230,662	181,621	49,041	
McLean.....	173,459	129,322	44,137	
Logan.....	164,650	138,700	25,950	
Woodford.....	129,724	169,600		39,876
Tazewell.....	81,141	67,973	13,168	
Cass.....	4,650	4,414	236	
Totals.....	2,375,937	2,050,349	365,464	39,876
Decrease.....			39,876	
Total increase.....			325,588	

The following statement shows the number of miners and other employés in and about the mines this year compared with last year:

Total number of miners employed in 1889.....	4,074
Total number of miners employed in 1890.....	4,162
Increase.....	88
Total number of other employés in 1889.....	1,043
Total number of other employés in 1890.....	1,009
Decrease.....	34

The amount of coal produced for every fatal accident is 237,597 tons.

The amount of coal produced for every non-fatal accident is 67,885 tons.

The total number of all employés about the mines for every fatal accident is 517.

The total number of all employés about the mines for every non-fatal accident is 147.

The average number of tons of coal produced from the blasting mines in the district for each keg of blasting powder used is 39.8 tons.

*Labor Difficulties.*—The strike, or what was generally termed a “suspension of labor,” which took place amongst the miners on May 1st of this year, was pretty general throughout the district up to the twelfth of May. Representatives of the operators and miners from the middle and northern coal-fields of this State met in Chicago April 27th to arrange a scale of prices for the year in the district represented, hoping thereby to avoid the threatened suspension of labor. The session lasted four days and closed without any satisfactory conclusion having been reached. Later, the executive officer of the miners’ organization agreed with a few of the leading operators of the northern coal-field, in Chicago, about the eighth of May, for the men to resume work at last year’s prices, pending the better organization of the southern miners. This agreement was accepted by most of the miners in this district after a few days’ further consultation in different localities. The miners and operators in Peoria and Fulton counties

however did not receive the order to go to work, at last year's prices, very favorably. The former claimed that they had been deceived and misled by the leaders of their organization, and the operators claimed that they were entitled to reduce the price of mining below the former years to meet the reduction made in northern Illinois the year before and enable them to hold their trade in the markets of the northwest. The operators based their claim on the Columbus scale of mining prices drawn up in the spring of 1889, claiming that this convention of operators and miners drew up a scale of mining prices for this and other states, the scale being, for LaSalle and Braidwood, 90 cents; Streator 80 cents; Peoria 70 cents, and Springfield 62½ cents. However, the operators in the northern coal-field broke loose from the Columbus agreement and gave notice of a reduction of 10 cents per ton on the price of mining on May 1889, which resulted in a strike in that coal-field which lasted from four to five months. During the strike the Peoria and Fulton county miners were kept busy in supplying the extra demand made on them during the strike. If the northern operators had been successful in compromising with their men earlier, on the agreed reduction of 7½ cents per ton, this same reduction no doubt would have speedily traveled southward, but the fall trade was fully begun when the northern difficulty was adjusted, hence the reason for the operators in Peoria and Fulton counties allowing the old mining price to run 'until May of this year. The miners claimed that their district was poorly represented at the Columbus convention and that the price named was too low, compared with other districts, to do them justice. May 14th the operators' and miners' delegation held a meeting in Peoria. A committee from each side met in the afternoon and the operators laid their ultimatum before the miners' committee, asking for a reduction on last year's price of five cents, making the price 65 cents per ton for mining. This offer, when reported to the miners in convention, was promptly declined. They met again the following day but with no better success; each party leaving for home that evening determined to fight it to the end. In the early part of June the executive of the miners' organization appeared and called for a meeting of the operators' and miners' delegates to try to make a settlement. After two or three meetings a compromise was effected at two and one-half cents' reduction making the price for mining 67½ cents per ton. This suspension of labor which lasted about six weeks embraced nearly 1,100 out of 1,500 miners and other employes, employed in Peoria and Fulton counties in the summer time. Work was, as a rule, very steady for about six weeks before the suspension. All of the railroads and factories of Peoria stocked up a large amount of coal along side of their switches, sheds, etc. In some cases as high as 1,500 tons were piled up by a single firm. Coal advanced very little in price in the Peoria market while the mines were idle. The middle and southern operators of this State kept their agents busy picking up every order that could be had at prices not much above the regular market price

when all the mines are in full operation. The result is that there is more coal shipped into this market to-day from Springfield, Athens, Lincoln, Girard and Mt. Olive than before the trouble.

*Machine-Mining.*—J. M. Walters, superintendent of the Kingston & Claire Coal Co., Kingston Mines, has been experimenting in the past year in their mines with an electric coal-mining machine of his own construction, but so far he has not been able to do satisfactory work, but hopes to be able, in time, to make it a success. Machine-mining is not making the headway in this district that was anticipated three years ago. I understand that the Menard Coal Company, Greenview, has lately stopped using the mining machines, using them only for cutting entries and turning rooms. That which works against machine-mining in this coal seam is the prevalence of "horse backs" and clay slips, as it requires a full amount of labor to pass through these faults, whereas the coal digger often does not receive full compensation for his labor, and often not sufficient to pay for the extra powder used.

*Desired Legislation.*—Taking advantage of the privilege granted to the mine inspector, I would earnestly recommend to the General Assembly some new legislation, also some amendments to the present law, all of which I believe, if adopted, will give those employed in coal mines a greater protection in safety and health. I would recommend that a violation of Section 1 of the mining law by an operator, after he has been duly notified, be considered a case of misdemeanor and punishable by a fine; that Section 4 be so amended as to authorize the mine inspectors to measure the air current at the extreme part of the air-ways or divisional air-ways of the mines working, and that the number of men that an operator be entitled to employ at one shift be based on the measurement of the air current at the place herein mentioned; also that Section 4 be so amended as to make it compulsory for the person who makes a daily examination of the condition of the mine before commencing work in the morning, to make the figures of the date of the month in chalk on the face of each and every working room in the mine and that this examination be made not more than four hours before commencing work; that Section 4 relating to the handling of blasting powder be so amended as to make it compulsory for all blasting powder to be made up into cartridges before being taken into the mine, cartridges to be conveyed into the mine in cases, for safety; that a law be enacted making it necessary for all coal mines in this State employing more than ten persons to be under the daily supervision of a duly certificated mine manager, the said certificate to be granted by a board of examiners appointed for that purpose; also that a law be enacted making it compulsory for owners of coal mines, where men are lowered into and raised from the mine by steam power, to have the hoisting cages, safety-catches and covers on the cages, hoisting cables and pullies examined every morning before commencing work by some authorized agent of the employer and a report made of the examination in a book kept for the purpose at the mine and open for ex-

amination by the mine inspector of that district; that the engineer be required to examine the hoisting machinery, also the external fittings of the steam boilers daily before commencing work, making a report of the same in a book kept for such purpose at the mines, and open for examination by the inspector of that district.

*Accidents.*—The number of accidents, fatal and non-fatal, this year shows an increase compared with last year. The number of fatal accidents this year is ten, being an increase of four over the previous year. Of these ten fatal accidents, six were married men, leaving six widows, and fifteen children dependent on them for a living. In taking a look over the dates of these accidents, we find something strange in their coincidence, although the scenes of the accidents were wide apart, something that makes one almost believe there is some truth in the saying that "misfortunes never come singly." Three miners met their death in the mines inside the first six days of the fiscal year; two more occurred on November 7th, and three between the 16th and 17th of December. Seven of these accidents occurred by falling rock in the working places, one by falling rock in an entry, one by flying coal from a blast, and one by a descending cage.

The non-fatal accidents have also increased over last year, being thirty-five, compared with twenty-nine for 1889.

*Fatal Accidents.*—The following is a brief report of each fatal accident for this year: July 1, 1889.—Charles Davison, aged 17 years, single, was employed in No. 4 mine of the Grape Creek Coal Co., Grape Creek. The deceased worked as a coal miner in company with his father. After firing a blast at noon he went back through the smoke to see what the shot had done. He found that the flying coal from the blast had knocked out some props near the room face which supported a quantity of loose rock; just as he came to the room face, the roof gave way, fatally injuring him. He died as he was brought to the surface.

July 5, 1889. James Cooper, aged 28 years, married, was employed as a miner by James Aberley, at Pottstown, near Peoria. He had prepared a blast at noon and applied a lighted squib to the same, immediately retiring to a place of refuge; the shot being long in firing off, he concluded that the match had gone out, so he started towards the room face, when the shot went off, the flying coal from the blast striking him. From the effects of the injuries received he died that afternoon. He left a widow and one child.

July 6, 1889.—C. Mowry, aged 23 years, married, was employed as a coal miner by the Colfax Coal Co., Colfax. He was fatally injured by a fall of rock in his room, and died on the 13th of the same month from the injuries received. He left a widow and one child.

September 28, 1889. John Elmfelt, aged 42 years, married, was employed by Kelly & Co., Grape Creek, as a coal miner. About 7:30 A. M., before commencing work, the deceased went into an abandoned room, where he was caught by falling rock. He died that afternoon. He left a widow and four children.

November 7, 1889. Daniel Herbert, aged 48 years, single, was employed by the Colfax Coal Co., Colfax, as a coal digger. He had applied a lighted match to a blast, and retired to the entry until his shot went off, but while standing there a piece of rock fell on him, from which injury he died that hour.

November 7, 1889.—Desire Nicodine, aged 45 years, widower, was a miner employed in the No. 4 mine of the Consolidated Coal Co. of St. Louis, at Danville. The deceased had fired a shot which knocked out some props in his room, and while endeavoring to reset the props the rocks of the roof gave way, killing him instantly.

December 16, 1889. August Morritz, who was employed by Carter & Little, of Wesley City, as pit-boss, made a visit to Peoria on business, returning to the mine about 4 P. M. He went to the lower landing of the shaft to call to the cager below to hurry up with a few more pit-cars of coal to complete the loading of a railroad car before quitting time. The signal being given to the engineer to hoist, he set the cages in motion, the descending cage caught and rested on the head of the deceased, it being fastened between the cage and the upper timbers of the cribbing of the shaft. Death was instantaneous. He was 34 years of age, married, leaving a widow and three children.

December 17, 1889. D. C. Potter and James Daggett were working partners and employed as miners by Kelly & Co., Grape Creek. They were loading their first car of coal in the morning when a rock fell, fatally injuring them. The driver came to them for their loaded car about 7:45 A. M., but, it not being loaded, they told him to come in a half-hour: on his return about the time requested he found both men under a rock which had fallen on them; when assistance was procured to remove the rock, both men were dead. The rock was about 4 by 8 feet and of an average thickness of seven inches. They had followed mining all their lives and were considered practical coal miners. Potter was 68 years of age, married, and leaves a widow and three children dependent; Daggett was 45 years of age, also married, leaving a widow and three children.

February 18, 1890. Adam Bartroshitas, aged 35 years, single, was severely injured by a falling rock at the face of his room when digging coal in the mine owned by the Coal Co. at Minonk. He died from the effect of his injury the second day after the accident.



*Fatal Casualties.—Third District.*

Date.	Name.	Age.	Occupation.	Residence.	Married. Single.	Widows. Children.	Cause of accident.
1889.							
July 1	Davison, Charles ..	17	Miner .....	Grape Cr'k..	1	1	Falling rock in room.....
" 5	Cooper, James .....	28	Miner .....	Peoria .....	1	1	Coal from a blast .....
" 6	Mowry, C. ....	23	Miner .....	Colfax .....	1	1	Falling rock in room.....
Sept. 28	Elmfelt, John .....	42	Miner .....	Grape Cr'k..	1	1	Falling rock in room.....
Nov. 7	Herbert, Daniel .....	48	Miner .....	Colfax .....	1	1	Falling rock in entry .....
" 7	Nicodine, Desire .....	45	Miner .....	Danville .....	1	1	Falling rock in room.....
Dec. 16	Morritz, August .....	34	Pit-boss..	Wesley City	1	1	Descending cage .....
" 17	Potter, D. C. ....	68	Miner .....	Grape Cr'k..	1	1	Falling rock in room.....
" 17	Daggett, James .....	45	Miner .....	Grape Cr'k..	1	1	Falling rock in room.....
1890.							
Feb. 18	Bartoshitas, Adam	35	Miner .....	Minonk.....	1	1	Falling rock in room .....
	Totals .....				6	4	6 15

\* Widower.

## RECAPITULATION.

Residence.	No.	Occupation.	No.	Cause.	No.	Percent.
Colfax .....	2	Miners .....	9	Blast explosion.....		
Danville .....	1	Pit-boss .....	1	Coal flying from blast	1	10
Grape Creek .....	4			Descending cage .....	1	10
Minonk.....	1			Falling rock.....	8	80
Peoria .....	1					
Wesley City.....	1					
Totals.....	10		10		10	100

*Non-Fatal Casualties.—Third District.*

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Character of injury and cause of accident.	Time lost— days.
1889.							
July 8	Donna, Donimica .....	28	Morris .....	1	1	Leg broken by fall of coal. ....	120
" 24	Schneider, Jacob .....	40	E. Peoria..	1	2	Body bruised by fall of rock.....	30
" 25	Sturtzman, Joseph .....	21	Grape Cr'k..	1	1	Foot injured by pit-car .....	10
Aug. 18	Compton, William .....	24	Colfax .....	1	1	Leg broken by pit-car .....	60
" 21	Striskey, Albert .....	18	Minonk .....	1	1	Leg broken by fall of coal .....	120
" 25	Costello, M. ....	35	Grape Cr'k..	1	2	Leg broken by fall of rock.....	90
" 25	Reed, Joseph .....	25	Grape Cr'k..	1	1	Leg broken by fall of rock.....	90
" 30	Van Slyke, Henry .....	42	Bryant.....	1	3	Leg broken by fall of coal.....	270
" 31	Wilson, Henry .....	47	Canton .....	1	4	Body injured by fall of rock.....	60
Sept. 3	Bowman, James .....	45	Roanoke .....	1	3	Hip bone fractured by fall of coal.	90
" 7	Penn, Henry .....	18	Edwards .....	1	1	Arm injured by falling rock.....	60
" 17	Haynes, John .....	36	Mapleton .....	1	3	Body injured by coal from a blast.	120
" 20	Salmon, Mike .....	25	Colfax .....	1	1	Body injured by falling rock.....	10
Oct. 2	Embroker, Frank .....	17	Lincoln .....	1	1	Face and hands burned by explosion of powder.....	6
" 10	Coleman, Martin .....	45	Colfax .....	1	3	Body injured by descending cage	20
" 26	Bovine, Disraeli .....	41	Reed City .....	1	4	Back injured by falling rock.....	14
Nov. 6	Descarpentiers, Anton .....	16	Roanoke .....	1	1	Leg broken by falling coal.....	90
" 15	Klagga, William .....	47	Grape Cr'k..	1	8	Leg broken and back injured by falling rock.....	90
" 25	Cartwright, William .....	40	Athens .....	1	3	Leg broken by pit-car .....	180
" 27	Maxwell, John .....	50	Elmwood .....	1	3	Leg broken and body bruised by falling down a shaft.....	120
Dec. 2	Breyne, August .....	56	Roanoke .....	1	4	Leg broken by a fall of coal.....	70

*Non-Fatal Casualties.—Concluded.*

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Character of injury and cause of accident.	Time lost— days.
1890.							
Feb. 4	Schramm, Fred.....	48	Bloomin't'n	1	..	Foot injured by fall of coal.....	+
" 4	Murry, Thomas.....	20	Dunferml'n	1	..	Foot injured by pit-car.....	20
" 6	McCue, Martin.....	55	Danville...	1	..	Shoulder injured by falling rock..	10
" 18	Barcwick, Anton.....	30	Minonk....	1	..	Body injured by falling rock.....	18
Mch. 15	Robinson, E.....	17	Grape Cr'k.	1	..	Foot injured by mule.....	1
Apr. 1	Cartwright, Charles....	40	Bloomin't'n	1	4	Leg injured by fall of rock.....	1
" 8	Dickinson, Abraham....	58	Greenvlew.	1	..	Head injured by premature blast.	28
" 4	Schafer, Frank.....	24	Minonk....	1	..	Body bruised by falling rock.....	24
May 2	Simpson, James.....	50	Lincoln....	1	..	Leg broken and body bruised by cage.....	90
" 9	Harris, John.....	24	Tallula....	1	..	Hands and face burned by powder	30
" 29	Conners, Joseph.....	50	Minonk....	1	4	Back injured by rock.....	*
June 18	Mongerard, Victor.....	55	Danville...	1	..	Shoulder injured by rock.....	10
" 25	Nicholaus, Theodore....	35	Grape Cr'k.	1	4	Body injured by blast.....	8
" 30	Rigdon, W.....	24	Grape Cr'k.	1	..	Back injured by a p.t-car.....	16
	Totals.....			24	11 54		1,974

\* Not yet recovered—unable to work.

† Foot amputated. Died five weeks afterwards of chronic diarrhea.

‡ Not yet recovered—leg amputated.

The 12 men who had broken legs lost an average of 116 days each, 7 of whom were married and having 37 persons dependent on them for subsistence, these lost an average of 130 days each.

## RECAPITULATION.

Residence.	No.	Occupation.	No.	Cause.	No.	Percent.
Athens.....	1	Drivers.....	5	Blast discharge.....	3	6.24
Bloomington.....	2	Cagers.....	2	Cage.....	2	5.7
Bryant.....	1	Miners.....	26	Powder explosion...	2	5.7
Canton.....	1	Pusher.....	1	Falling coal.....	7	20
Colfax.....	3	Top-man.....	1	Falling rock.....	14	40
Danville.....	2			Falling down shaft..	1	2.8
Dunfermline.....	1			Pit-car.....	5	14.3
East Peoria.....	1			Trod on by mule.....	1	2.9
Edwards.....	1					
Elmwood.....	1					
Grape Creek.....	7					
Greenvlew.....	1					
Lincoln.....	2					
Mapleton.....	1					
Minonk.....	4					
Norris.....	1					
Reed City.....	1					
Roanoke.....	3					
Tallula.....	1					
Totals.....	35		35		35	100

Character of injury.	No. of men.	Per cent.	Occupation.	Num- ber.	Name of company, firm or in- dividual by which employed.	Num- ber.
Arm injured.....	1	2.9	Cagers.....	5	Kelly & Company.....	5
Back injured.....	3	11.4	Drivers.....	2	Chi. & Minonk Coal & Coke Co..	4
Bodies injured.....	8	22.8	Miners.....	26	Colfax Coal Mining Company..	3
Face and hands burned	2	5.7	Pusher.....	1	Roanoke Coal & Mining Co....	3
Feet injured.....	4	11.4	Top-man...	1	Consolidated Coal Company...	2
Head injured.....	1	2.9			Grape Creek Coal Company...	2
Hips injured.....	1	2.9			Lincoln Coal Company.....	2
Legs broken.....	12	31.4			McLean County Coal Company	2
Legs injured.....	1	2.9			Adam Sholl.....	1
Shoulder injured.....	2	5.7			Ashton & Company.....	1
					Athens Coal Company.....	1
					A. W. Heald.....	1
					Elmwood Coal Company.....	1
					Emerson & Company.....	1
					Greenvew Coal Company.....	1
					Illinois Coal & Coke Company..	1
					J. O. Shaughnessy.....	1
					Tallula Coal Company.....	1
					Taylor Williams.....	1
					Wantling & Howarth.....	1
	35	100.00		35		35

The following tables give the detailed information of each mine in the district and a recapitulation by counties.

Respectfully submitted,

JAMES FREER,

*Inspector Third District,*

Peoria.



*Fulton County—Concluded.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Maple Wood C. Co.	Farmington	10	20	7	2	140	560	..	..	\$0 65	\$0 70	10,800	\$1 00
J. A. Emans	"	20	32	8	2	150	600	..	..	70	75	22,120	1 00
Wm. Raffle	"	1	12	1	..	110	..	..	..	70	75	440	1 25
Elisha Webster	"	..	1	..	..	90	..	..	..	..	75	160	1 25
Claire Coal Co.	Middle Gv	15	25	7	2	150	450	..	..	70	75	9,800	1 00
Jerome Harding	"	..	2	..	..	170	..	..	..	70	75	680	1 00
Jos. Nicolany & Co.	"	..	12	..	..	40	..	..	..	70	..	640	1 00
M. C. Zimmermann	"	..	1	..	..	100	..	..	..	70	75	280	1 00
Cline & Son	Lou'ou M.	8	10	2	1	200	195	..	..	85	85	2,000	1 35
Pat Meehan	Breeds	18	25	4	2	180	400	..	..	70	75	10,100	1 05
James Davis	"	..	1	..	..	50	5	..	..	..	75	160	1 00
John Danton	"	..	1	..	..	65	..	..	..	..	75	250	1 00
Halligan & Co.	Rawalt	..	1	..	..	120	12	..	..	70	75	480	1 00
Cuba Union C. Co.	Cuba	2	25	8	2	275	740	..	..	65	70	18,400	1 00
James Sterrat	"	20	25	8	2	100	200	..	..	65	70	8,300	1 00
W. Rutherford & Son	"	25	35	5	2	125	..	..	..	57 1/2	60	20,064	1 05
Eagle Coal Co., No. 1	"	19	35	4	1	210	308	..	..	65	70	13,343	1 12 1/2
" No. 2	"	8	12	3	1	300	55	..	..	65	70	2,466	1 12 1/2
W. Nicholson & Sons	"	..	18	3	1	210	90	..	..	65	70	6,200	1 12 1/2
W. H. Johnson	"	..	..	..	..	100	10	..	..	..	70	350	1 00
Peter Bull	"	..	1	..	..	80	12	..	..	..	70	485	1 00
A. J. Lane	Seville	..	9	..	..	120	..	..	..	1 00	1 00	260	1 75
Wm. Murry	"	..	9	..	..	95	..	..	..	1 00	1 00	160	1 75
J. L. Lovell	"	..	1	..	..	60	..	..	..	1 00	1 00	100	1 75
Wilson Varner	Marietta	..	2	..	1	200	..	..	..	1 00	1 00	630	1 50
John Anderson	"	..	2	..	..	240	..	..	..	1 00	1 00	595	1 50
Chas. Howard	"	..	2	..	..	70	..	..	..	1 00	1 00	212	1 50
J. R. Greene	Flatt	6	12	3	1	130	160	..	..	65	70	4,200	1 10
John Williams	"	1	2	..	..	100	10	..	..	65	70	442	1 00
S. H. Bateman	Fairview	3	8	2	1	135	100	..	..	65	70	2,800	1 10
R. E. Gould	"	2	4	1	..	120	..	..	..	65	70	740	1 25
Theo. Pumyea	"	..	1	..	..	50	..	..	..	..	70	125	1 25
John Aberduskey	"	..	2	..	..	100	..	..	..	..	70	320	1 00
John Root	"	..	2	..	..	90	..	..	..	..	70	280	1 00
Samuel Parr	"	..	1	..	..	85	..	..	..	..	70	180	1 00
Josiah Karr	"	..	2	..	..	110	..	..	..	..	70	350	1 00
Mark Whitehead	Babylon	1	3	..	..	130	..	..	1 00	1 00	1 00	810	1 25
P. O. Heller	Bernado'e	..	1	..	..	90	..	..	..	1 00	1 00	150	1 50
C. J. Pickering	Table Gv.	2	2	..	..	170	30	..	..	75	75	823	1 50
Clark Swanson	"	1	2	..	..	160	..	..	1 00	1 00	1 00	480	1 75
Solomon Schaffer	Summum	..	1	..	..	80	..	..	..	1 00	1 00	120	1 25
John D. Bankert	"	..	1	..	..	90	..	..	..	1 00	1 00	135	1 25
Abe Leonard	Otto	1	2	..	..	120	..	..	1 00	1 00	1 00	240	1 50
Israel Shawgo	"	..	2	..	..	90	..	..	..	1 00	1 00	172	1 50
John Winchell	D'ne'n M's	..	1	..	..	200	..	..	..	75	75	200	1 50
Hendee & Snyder	"	2	4	..	..	210	..	..	1 00	1 00	1 00	1,225	1 50
John McArthur	Liverpool	..	1	..	..	60	5	..	..	75	75	180	1 00
J. W. Lamb	Maple M's	1	2	..	..	160	20	..	..	75	75	610	1 00
Thos. Romaine	Banner	1	1	..	..	170	15	..	..	75	75	486	1 00
Amos Williams	"	..	1	..	..	100	6	..	..	75	75	172	1 00
Robert Williams	Monterey	1	2	..	..	120	10	..	..	75	75	330	1 00
Robert Orr	Bushnell	2	4	1	..	100	15	..	1 00	1 00	1 00	870	1 50
Totals (89 mines)		539	803	182	47	14,223	4	..	..	..	..	404,417	..
Averages						137	..	..	..	\$0 67	\$0 71.58	..	\$1 07.11

*Logan County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Lincoln Coal Co....	Lincoln...	60	90	25	2	280	3763	...	2	\$0 60	\$0 60	94,500	\$1 10
Citizens' C. M. Co.	" "	60	80	30	4	220	2741	...	...	60	60	60,150	1 00
Union Coal Co.....	Mt. Pul'ski	20	35	9	2	180	700	...	...	65	65	10,000	1 00
Total (3 mines)....		140	205	64	8	7294	...	2	.....	.....	.....	164,650	.....
Averages .....		.....	.....	.....	.....	226.7	.....	.....	.....	\$0 60.3	\$0 60.3	.....	\$1 05 7

*McLean County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	K e g s of powder used during year.	Casualties.		Paid per ton for mining.		Total tons o' coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
McLean County C.C.	Bl'mingt'n	200	275	70	4	275	50	2	2	* \$0 75	† \$0 75	127,082	1 30
Colfax Coal Min. Co.	Colfax ....	30	60	10	2	210	1,520	2	3	60	60	38,000	1 00
Chenoa Coal Co. ....	Chenoa....	8	12	6	...	220	340	...	...	80	80	8,410	1 40
Total (3 mines)...	.....	238	347	86	6	1,910	2	5	.....	.....	.....	173,492	.....
Averages .....	.....	.....	.....	.....	.....	235	.....	.....	.....	\$071.96	\$071.96	.....	\$1 23.86

\* Upper seam \$0.62½ during the year, average \$0.75.

† Lower seam \$0.82½ during the year, average \$0.75.

*Menard County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per for ton mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Greenvew Coal Co.	Gre'nview	55	70	20	2	205	2,623	1	1	\$0 55	\$0 55	56,080	\$0 86½
Menard Co. Coal Co.		45	60	20		218	1,274					55,854	86
Tallula Coal Co.	Tallula....	15	35	7		200	410	1	1	55	60	10,000	90
Athens Coal Co.	Athens....	60	80	29	8	280	3,173	1	1	55	60	69,709	90
A. E. Estill & Co.	Petersburg	35	50	12	2	200	997			62½	62½	29,341	93
Cabanis & Axford.	"	5	10	3		220	182			62½	62½	3,789	1 12½
Levi Hohimer.	"	3	5	1		220	91			62½	62½	1,863	1 25
William Rice.	"	2	4	1		200	75			62½	62½	1,600	1 25
William Perkins.	Sweet W.	2	5	2		208	89			62½	62½	2,099	1 25
F. M. Price	Tice.....	1	1	1		126	25			62½	62½	377	1 12½
Totals (10 mines)...		223	320	87	12	207.7	8,939	3	3			230,662	
Averages.....						207.7				\$0 56.68	\$0 58.96		\$0 89.9

\* Total output cut by machines, not included in taking averages.

*Peoria County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
G. W. Bethard.....	Glassford.	20	...	7	1	130	400	...	...	\$0 75	...	7,500	\$1 20
Ebenezer Tyler.....	"	...	2	1	...	110	...	...	...	...	\$0 75	475	1 25
K'gst'n & Claire C.C.	K'ngst'n M.	25	40	8	2	150	480	...	...	75	75	12,000	1 00
Jefford Bros.....	"	10	...	2	1	112	230	...	...	75	...	5,200	1 10
Frank Fahnestock..	"	...	3	...	...	95	17	...	...	...	75	680	1 25
Jno. O'Shaughnessy	Mapleton..	10	20	4	...	180	403	1	...	65	70	9,041	1 12½
A. Morton & Bros..	"	10	15	4	...	160	360	...	...	65	65	8,050	1 12½
Ill. Coal & Coke Co.	"	...	16	3	1	90	210	...	...	...	70	4,850	1 10
"	Reed City.	35	55	10	2	196	1,108	1	...	65	70	27,450	1 10
"	Orch'd M.	...	20	4	1	126	370	...	...	75	75	8,300	1 10
German Co-op. C. C.	"	15	20	4	2	91	259	...	...	75	75	5,895	1 10
Frank Engelke.....	"	3	8	2	1	200	140	...	...	75	75	3,590	1 10
Wheeler Bros.....	"	...	3	...	...	80	30	...	...	...	75	500	1 00
James Reagan.....	"	...	2	...	...	50	12	...	...	...	75	264	1 00
D. B. Roberts.....	"	...	2	...	...	60	10	...	...	...	75	280	1 00
Mat. Nesselhouse..	"	1	2	...	...	86	21	...	...	75	75	450	1 00
John L. Petrie.....	"	...	2	...	...	70	12	...	...	...	75	300	1 00
Jones & Calhoun...	"	...	2	...	...	90	18	...	...	...	75	480	1 00
John W. Powell....	"	...	1	...	...	30	4	...	...	...	75	90	1 00
Jos. Gorenz & Co..	Bartnville	10	15	4	1	200	340	...	...	75	75	7,800	1 00
Reuben Street.....	"	...	10	4	...	120	140	...	...	...	75	3,600	1 00
Collier's Co-op. C. C.	"	26	26	7	1	234	1,520	...	...	75	85	27,520	1 12½
Walter Treasure...	"	4	8	2	...	130	150	...	...	75	75	3,800	1 12½
Lot Hurst.....	"	2	4	1	1	110	40	...	...	75	75	1,080	1 12½
Geo. Keller & Sons..	"	3	8	2	1	200	270	...	...	75	75	5,440	1 12½
Wooland Bros.....	"	8	14	2	...	220	380	...	...	75	75	8,640	1 12½
Adam Sholl No. 1..	Peoria	60	80	13	2	230	2,550	...	...	75	75	50,520	1 10
" No. 2.	"	8	...	4	...	130	112	...	...	75	...	2,200	1 10
Millard & Wolschlag	"	25	35	10	4	220	1,500	...	...	75	75	25,200	1 00

## Peoria County—Concluded.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Killed.	Injured.	Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.							Summer.	Winter.		
A. W. Moffat.....	Peoria.....	4	8	2	1	190	200			\$0 75	\$0 75	3,840	\$1 12½
Pfander Bros.....		6	12	1		120	110			75	75	2,400	1 12½
T. P. Schmidt & Son		12	18	2		240	274			75	75	6,200	1 12½
John Laucks.....		3	5	1		235	140			75	75	2,500	1 12½
John Glenn.....		10	10	1		220	247			75	75	3,960	1 00
James Day.....		3	9			150	46			75	75	1,126	1 00
Edward Allen.....		1	4			110	70			75	75	1,075	1 00
Mrs. C. Mohn.....		2	4	1		120	60			75	75	1,280	1 00
William P. Grant.....		4	5	1	1	110	56			75	75	1,050	1 00
Edward Brost.....		4	6	1		170	100			75	75	4,000	1 00
Henry Mohn.....		3	5	1	1	180	30			75	75	1,300	1 00
Deloris Mulligan.....		4	4			120	72				75	1,100	1 00
Frank Rewart & Co.		2	8	2	1	130	70			75	75	1,500	1 00
S. E. Wilcox.....		10	15	4		200	306			75	75	7,200	1 00
Peter Grant & Son		10	30	6		205	820			70	75	16,400	1 00
Royster Bros. & Co.		20	90	7	2	180	840			70	75	17,672	1 00
Barnswalt & Pfender		8	12	5	1	170	300			70	75	7,200	1 00
Daniel Driscoll.....		2	3			200	97			75	75	1,200	1 12½
Masterson & Keefe.....		2	2			210	102			75	75	1,280	1 12½
Birdoes Bros.....		2	2			250	112			75	75	1,360	1 12½
Davis & Fisher.....		2	2			200	95			75	75	1,180	1 12½
Schneidtr & Harrim'n		2	2			160	35			75	75	720	1 12½
Noah Nee.....		2	3			180	30			75	75	800	1 12½
C. Lammers.....		1	3			160	37			75	75	889	1 12½
James Slain.....			2			100	26				75	450	1 00
Vickery Bros.....		9	20	3	2	180	750			70	70	11,318	1 00
L. Wantling & Son No. 1		30	50	9	3	180	1,144			70	70	22,885	1 00
No. 2		10	15	3	2	190	420			70	70	8,198	1 00
James Aberley.....		20	30	8	2	240	1,720			70	70	36,000	1 00
Edward Pepper.....		1	2			120	30			70	70	580	1 00
Jesse Stafford.....			1			100	20				70	200	1 00
C. Kramm & Bros.....	Edwards.....	10	15	5	1	120	320			70	70	9,300	1 00
Howrth & Taylor Br's		35	50	6	3	180	600			70	70	12,000	1 00
Wantling & Howarth		30	40	6	3	166	720	1		70	70	16,379	1 00
Edwards Coal Co.....			10	3	1	100	160				70	3,000	1 00
Richard Pillman.....		1	2			200	25			70	70	600	1 00
Wm. Lonsdale.....			2			100	12				70	260	1 00
Robert Lonsdale.....			2			110	15				70	300	1 00
Chas. Kingsley.....		1	3			145	30			70	70	680	1 00
Wm. Harper.....			2			100	14				70	280	1 00
A. Purtscher.....	Kramm.....	5	15	3	1	150	380			70	70	8,500	1 00
Elmwood Coal Co.....	Elmwood.....	30	30	5		280	671	1		75	75	10,267	1 10
John Enders.....		2	3	1		180	42			75	75	910	1 12½
Joseph Keatton.....	Brimfield.....		3	1		120					75	720	1 12½
Phillip Tulley.....			4	1		110					75	330	1 25
Longdon & Co.....		2	4	1	1	140				75	75	1,200	1 25
G. W. Smith.....			2			112					75	450	1 25
James Duffey.....		1	2			131				75	75	560	1 25
Chas. E. Berry.....	Monica.....	1	4	1		130	15			75	75	750	1 50
Joseph Wilford.....			3	1		112	8				75	260	1 50
John Jordan.....	Kickapoo.....	2	4	1		160				75	75	920	1 25
Wm. Poole.....			2	1		100					75	380	1 25
Wm. G. Saunders.....	Jubilee.....		1			50	4				75	110	1 25
Ill. Coal and Coke Co	Hanna C'y	20	35	7	2	160	630			70	75	15,200	1 10
Edward Q. Cox.....			2	1		112					75	315	1 00
A. P. Downing.....	Smithville.....	1	2			150				75	75	570	1 25
Wm. Tyler.....	Cramer.....		1			50					75	150	1 25
John Sample.....	Laura.....	1	2	1		90				75	75	285	1 75
Totals (87 mines).		581	964	201	52	23,151	1	4				482,725	
Averages.....						146.8				\$0 72.6	\$0 72.88		\$1 057.3



*Tazewell County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.								PRODUCTS AND VALUES.			
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Newsam & Lowery..	Pekin.....	15	28	5	...	200	290	...	...	\$0 70	\$0 70	5,798	\$1 10
Louis Grant & Sons.	"	25	35	5	1	225	750	...	...	85	85	15,800	1 12½
Wm. Rundle.....	"	10	15	2	...	234	352	...	...	85	85	7,954	1 25
Jesse Mace.....	"	2	4	1	...	140	36	...	...	85	85	840	1 25
Carter & Little.....	Wsl'y C'ty	25	35	4	1	210	800	1	...	75	75	19,340	1 00
W. City Co-op. C. C.	"	35	50	7	2	230	1,236	...	...	75	75	19,780	1 00
Adam Sholl.....	E. Peoria.	10	...	4	...	55	75	1	...	75	...	1,700	1 00
Rusche Bros.....	"	2	7	3	...	144	125	...	...	75	75	2,652	1 12½
George Wieland.....	"	4	7	1	...	150	90	...	...	75	75	1,947	1 12½
Jacob Schmitt.....	"	3	8	1	1	200	220	...	...	75	75	5,100	1 00
Smith & Reynolds..	"	...	2	1	...	60	12	...	...	...	75	230	1 12½
Totals (11 mines)...		131	188	33	5	...	3,986	1	1	...	...	81,141	...
Averages .....						168	...	...	...	\$0 77.67	\$0 77.67	...	\$1 06.6

*Vermilion County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Con. C. Co. of St. L—	Danville ..	149		39		100	697			\$0 60		37,941	\$0 95
No. 2.....		106	136	32		260	1,710			60	\$0 60	108,938	95
No. 3.....		149	270	39		254	3,216	1	2	60	60	150,019	95
No. 4.....		3	6	2		215	48			60	60	2,500	1 12½
John E. Lloyd, No. 1	No. 2	3	5			210	40			60	60	2,000	1 12½
Albert Hall.....	"	2	5	1		210	35			60	60	1,800	1 12½
Thos. D. Frazee.....	"	2	3			180	25			60	60	650	1 12½
Wm. H. Jenkins.....	"	3	4	1		250	40			60	60	2,000	1 25
A. G. Jenkins.....	"	2	4	1		235	32			60	60	1,550	1 25
Wm. Schaffer.....	"	2	2			100	12				60	350	
George Lewarren.....	"	2	3			200	32			60	60	1,480	1 12½
Elisha Lloyd.....	"	2	3	1		180	30			60	60	1,420	1 12½
Braceville & Russell	"	3	1			110	20				60	900	1 12½
John Mauck.....	"	2	4	1		230	37		6	60	60	1,570	1 00
Braceville & Myers.	"	2	5	1		210	50			60	60	2,000	1 12½
Elmer Ellison.....	"	2	4	1		215	42			60	60	1,820	1 12½
Morin & Sons.....	"	4	1			120	21				60	1,025	1 12½
Bolton & Ray.....	"	2	6	1		250	56			60	60	2,200	1 12½
J. E. Covey.....	"	2	2			50	5				60	240	1 12½
George E. Pickett.	"	1				40	3				60	120	1 12½
Michael McGinsie.	"	1				35	3				60	120	1 12½
Benj. F. Spickard.....	"	1				42	4				60	160	1 12½
Watkins & Stanbury	"	2	4	1		180	34			60	60	1,450	1 12½
Peter Dillon.....	"	1				50	4				60	160	1 12½
John E. Morgan.....	Vand'cook	2	4	1		220	28			60	60	1,550	1 12½
Grape Creek C. Co—													
No. 3.....	Grape C'k.	13	60	6	3	180	795			65	65	33,738	1 02
No. 4.....	"		8	2	1	60	30				65	1,364	1 02
No. 5.....	"	80	130	36	4	250	3,550	1	2	65	65	101,917	1 02
M. Kelly & Co.....	"	100	120	34	3	247	3,275	3	5	65	65	91,054	1 00

## Vermilion County—Concluded.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter, ...					Killed.	Injured.	Summer.	Winter.		
G. C'k Co-op M. Co.	Grape C'k.	20	30	8	1	221	288	..	..	\$0 65	\$0 65	11,670	\$1 12½
Spellman C. Co., No. 1	"	8	12	2	..	210	135	..	..	65	65	8,000	1 12½
" " No. 2	"	15	25	5	28	220	335	..	..	65	65	16,800	1 12½
James A. McDowell	"	10	15	3	1	210	230	..	..	65	65	8,150	1 10
Lucas & Raine	"	5	6	2	..	180	87	..	..	65	65	2,617	1 10
Charles Moran	"	8	15	3	1	260	120	..	..	65	65	4,700	1 25
A. M. Bushong	"	4	6	1	..	110	60	..	..	65	65	2,000	1 12½
Buntling Bros.	"	..	4	1	..	90	31	..	..	65	65	1,080	1 12½
David P. Wilson	"	5	10	2	..	120	82	..	..	65	65	2,480	1 12½
J. W. Blue	"	5	15	2	2	250	140	..	..	65	65	5,000	1 00
Calvin Cobb	"	..	4	1	..	100	35	..	..	65	65	1,200	1 00
Arthur Jones	Catlin	3	6	2	1	250	103	..	..	55	55	3,042	1 25
Thos. Thomas	"	1	3	1	..	182	15	..	..	55	55	800	1 25
John Thomas	"	..	2	..	..	100	5	..	..	55	55	300	1 00
Thos. J. Jones	"	..	4	1	..	120	20	..	..	55	55	1,050	1 12½
Harry Harris	"	..	4	1	..	140	30	..	..	60	70	1,100	1 12½
Dan'l France & Son.	"	..	6	1	..	160	32	..	..	60	70	1,350	1 12½
George Emmitt	Fairmont.	33	6	1	..	160	36	..	..	60	70	1,600	1 12½
Thomps'n & Billman	"	33	6	1	1	170	40	..	..	60	70	1,680	1 12½
Fairmount C. M. Co.	"	16	20	5	1	120	210	..	..	60	70	5,434	1 06
C. M. Swallow	Glenburn.	10	20	3	1	183	178	..	..	60	60	5,165	1 25
Wm. J. Moore, No. 1	Pilot	6	10	2	1	180	80	..	..	60	60	2,400	1 25
Wm. J. Moore, No. 2	Blount	..	8	2	1	100	40	..	..	60	60	1,100	1 25
Taylor Casteel	Hillery	..	3	1	..	100	32	..	..	60	60	900	1 00
Fr'nee Bros. & Stuebe	Oak Wood	5	10	3	..	200	88	..	..	60	60	3,800	1 00
John Woodward	"	12	4	1	..	110	33	..	..	60	60	999	1 12½
Jones & Castleton	"	..	2	..	..	100	20	..	..	60	60	320	1 12½
Con. Coal C. of St. L.	Miss'n F'd	..	..	..	..	..	..	..	..	..	..	*49,109	95
M. Kelley & Co.	Grape C'k.	..	..	..	..	..	..	..	..	..	..	*7,286	1 05
John Kelly	Danville	..	..	..	..	..	..	..	..	..	..	*800	1 00
A. S. Williams	"	..	..	..	..	..	..	..	..	..	..	*120	1 00
Watkins & Stanbury	"	..	..	..	..	..	..	..	..	..	..	*90	1 00
John Brady	Vanderc'k	..	..	..	..	..	..	..	..	..	..	*140	1 00
A. S. McBride	"	..	..	..	..	..	..	..	..	..	..	*70	1 00
Anthony Wilson	"	..	..	..	..	..	..	..	..	..	..	*120	1 00
Totals (64 mines).		763	1055	259	24	15379	5 9					704,509	
Averages						165.5				\$0 61.98	\$8 62.54		\$1 00.3

\* Coal from strip banks not used in taking average.

*Woodford County—Third District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
C. & M. C. & C. M.	Minonk....	130	160	65	10	240	....	1	4	\$0 82½	\$0 82½	87,000	\$1 50
Roanoke Min'g Co	Roanoke..	75	95	25	8	235	....	10	3	\$0 82½	\$0 82½	43,724	1 40
Totals (2 mines) ..	.....	205	255	90	18	....	10	1	7	.....	.....	129,724	.....
Averages.....	.....	.....	.....	.....	.....	237.5	.....	.....	.....	\$0 82½	\$0 82½	.....	\$1 46.7

*Recapitulation by Counties—Third District—1890.*

COUNTIES.	MINES.				MINERS.							PRICES AND PRODUCTS.					
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	No. of miners and other employés.				Average number of days worked.	Number of kegs of powder used.	Killed.	Injured.	Average price paid per ton for hand-mining.	Total tons of coal mined.	Average value per ton at the mine.	Aggregate value of total product.
						Miners, summer.	Miners, winter.	Other employés.	Boys underground.								
Cass.....	4	2	2	1	..	7	25	7	....	200	138	..	..	\$0 83.18	4,650	\$1 50.6	\$7,004
Fulton.....	89	21	68	25	8	539	803	182	47	137.1	14,223	..	4	70.12	404,417	1 07.17	433,434
Logan.....	3	3	...	...	...	140	205	64	8	226.7	7,204	..	2	60.3	164,650	1 05.7	174,100
McLean....	3	3	...	...	...	238	347	86	6	235	1,910	2	5	71.96	173,492	1 23.86	214,981
Menard....	10	6	4	...	...	223	320	87	12	207.7	8,939	..	3	58.2	*230,662	89.9	207,374
Peoria.....	87	31	56	6	5	531	964	201	52	146.8	23,151	1	4	72.79	482,725	57.3	510,364
Tazewell..	11	5	6	1	1	131	188	33	5	168	3,986	1	1	77.67	81,141	1 06.6	86,499
Vermilion.	64	20	44	5	5	763	1,055	259	24	165.5	15,379	5	9	62.33	†704,509	1 00.3	705,957
Woodford..	2	2	...	...	...	205	255	90	18	237.5	30	1	7	82.5	129,724	1 46.7	190,314
Totals....	273	98	180	46	19	2,827	4,162	1009	172	.....	74,940	10	35	.....	2,375,970	.....	\$2,530,027
Averages	...	...	...	...	...	...	...	...	...	154	.....	...	...	\$0 67.98	.....	\$1 06.48	.....

Whole number of openings reported in 1889, two hundred and forty-six.

Number of new mines or places opened during the year, forty-six.

Number of mines exhausted or abandoned during the year, nineteen.

Whole number of openings reported for 1890, two hundred and seventy-three.

\* Coal mined by machines, 55,854 tons.

† Coal from 8 strip banks, 57,735 tons, not used in taking averages.

## FOURTH DISTRICT---1890.

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MR. JOHN S. LORD,

*Secretary of the State Bureau of Labor Statistics, Springfield, Ill.*

SIR: In compliance with section twelve of the mining code of the State, defining the duties of State Inspectors of mines, I herewith submit the seventh annual report of the Fourth district for the year ending June 30th, 1890.

The following report gives tabulated statements, showing the number of collieries, both shipping and local, the number of new mines, also the number of abandoned mines; the number of miners and other employés, and boys employed, during the summer and winter months; the number of days worked at each mine, with an average for each county and the whole district; the prices of mining and the value of the coal at the mines; also the number of mining machines, and the number of employés operating them, with the tonnage of the machines in each county; the quantity of blasting powder used and the total valuation of the coal at the mine; a record is given of all fatal and non-fatal accidents, with a recapitulation of all the mining counties in the district.

The following summaries are presented for the district:

Total number of mines .....	137
Shipping mines.....	55
Local mines .....	82
New mines.....	47
Abandoned or exhausted mines.....	4
Number of employés, miners .....	3,327
Number of other employés in and about the mines, including 123 boys.....	2,358
Total number of employés.....	5,685
Average number of working days for the district.....	214
Total number of kegs of powder used.....	64,369
Average price for mining in summer.....	\$0 58
Average price for mining in winter.....	\$0 60
Number of tons of coal produced.....	3,716,464
Average value of coal at the mines .....	\$0 87.29
Aggregate value of coal at the mines.....	\$3,243,929
Number of mining machines used: Harrison, 128; Legg, 3; Chouteau, 17; Ingersoll—Sargent, 4 .....	152

Output in tons by machines.....	1,615,453
Number of employes operating the machines.....	1,614
Number of fatal accidents.....	11
Number of non-fatal accidents.....	71
Total number of accidents .....	82
Number of employes to each fatal accident.....	517
Number of employes to each non-fatal accident.....	80
Number of tons produced for each fatal accident.....	337,860
Number of tons produced for each non-fatal accident.....	52,344

*Improvements.*—A number of important improvements have been made in and around the mines of the district during the year.

In Madison county, the Consolidated Coal Co., of St. Louis, has made connections between the Troy shaft and Brookside shaft, giving a better means of escapement in case of accident to either shaft. Two new boilers have been put in at the Troy shaft. The hoisting shaft at Heintz Bluff has been retimbered and new cages put in. At the Macoupin county mines, the escapement shaft at No. 7 colliery has been retimbered, and a new automatic slack dump has been erected at No. 6 colliery at Staunton. A new and improved screen plant has been erected at this company's Gillespie colliery, Gillespie; the coal as it leaves the cage is dumped into a hopper, where it passes on to perforated steel plates; the plates are given a shaking motion by eccentrics from an engine shaft; the slack is taken completely out of the coal; after leaving the plates the lump coal then passes on to conveyors, or traveling tables, where all impurities are taken out of the coal by being hand-picked by boys, leaving the lump coal perfectly clean as it passes into the railroad flats. The screen has worked very successfully since erected, which is a credit to the general management of these mines. This is a new departure in screening our Illinois soft coal, and at all large mines the plan will certainly be adopted. This company has put in four new boilers, a new compressor, new tower and top works at their St. Barnard colliery, at Clyde, more royalty has been secured and new entries opened into it, which means a bright future for this colliery.

The Mount Olive Coal Co. has completed its escapement shaft during the year. The Victor Coal Co., at Roodhouse, and the Jacksonville Coal Co., at Jacksonville, have completed their escapement shafts during the year. The Coffeen Coal Co. has put in a 12-foot fan (Brazil manufacture), and the Virden Coal Co. has put in a 15-foot fan (Alton manufacture), both of which are giving very good satisfaction.

The Chouteau and Ingersoll-Sargent mining machines have been introduced into the Girard colliery. This company experimented for about one year with the Smith Electric Coal Cutting machines, but the machines not giving satisfaction, they were withdrawn and compressed air machines introduced. The Chouteau and Ingersoll-Sargent machines are giving very good satisfaction. A new shaking screen has been introduced at this colliery which makes a better article of nut and pea coal than the ordinary re-

volving screen. New boilers have been put in at No. 2 Sangamon Coal Co. shaft, also a new Guibal fan, with expanding chimney, which has made great improvement in the ventilation, and new boilers, new engine and boiler house have been put in at the Winchester shaft.

*New Mines.*—The new shaft of the Assumption Coal Co. has been put into operation during the year. This is the deepest shaft in the State, being one thousand feet to the bottom of the sump. The coal is of a very good quality; it corresponds to No. 2 of the general section of the State; the outside plant is first-class in every particular; the hoisting engines are 24"x36" geared direct (Litchfield manufacture), with a 10-foot drum; two plain cylinder boilers; brick engine and boiler house, and a 12-foot fan (Brazil manufacture) has been erected for ventilation.

The Springside Coal Co.'s colliery has been opened during the year. The shaft is 705 feet deep; coal seam 7½ feet thick; the plant is first-class and intended for a large output. The hoisting engines are 18"x36" geared direct, built by Crawford & McCrimmon, Brazil, Ind. The engine-house, boiler-house and smoke stack are built of brick, Murry's automatic dump-cage is used for hoisting, and a Brazil fan is used for ventilation.

The Shipman Coal Co.'s shaft has been opened during the year. The shaft is 330 feet deep, coal seam 2'9" thick, being seam No. 1 of the general section, and the coal is of a very good quality. A pair of Litchfield engines has been put in for hoisting.

Several small mines have been put in operation in Greene, Jersey, Scott, Pike, Morgan, Effingham, Richland and Jasper counties, but a great number of them are small strip banks.

*Abandoned Mines.*—Raynor & Locks' shaft at Bunker Hill, Taylor & Ball's shaft at North Alton, John Kelly & Sons' shaft at Edwardsville, and the Morgan County Coal Co.'s shaft at Franklin, have been abandoned during the year.

*Prospective Mines.*—The Cantrall Coal Co. has sunk a shaft at Cantrall, Sangamon county. The shaft is about 200 feet deep, coal seam 5'6", equivalent to seam No. 5 of the general section.

The Madison Coal Co. has sunk a shaft at Peters' Station, on the Toledo, St. Louis & Kansas City R. R. The shaft is said to be 90 feet deep, coal seam 7 feet thick, equivalent to seam No. 6 of the general section. This is a new coal company and, from report, will operate very extensively in the future in Madison county.

Nothing has been done as yet in opening out mines at Nokomis, Ramsey and Moweaqua, although large seams of coal have been found at all those points by boring with the diamond drill.

*Mining Machines.*—There are now fourteen collieries in the district operated by coal-cutting machines, viz.: Abbey No. 3 and Heintz Bluff at Collinsville; Troy colliery at Troy; No. 6 and No. 7 collieries at Staunton; No. 8 colliery at Mount Olive; Gillespie colliery at Gillespie; St. Barnard colliery at Clyde; Mount Olive Coal Co.'s colliery at Mount Olive; Wolf Bros. colliery at Edwardsville; Pana Coal Co.'s No. 1 colliery at Pana; Wilmington & Springfield colliery at Ridgely; Illinois Fuel Co.'s

colliery at Sangamon, and Girard Coal Co.'s colliery at Girard. The Consolidated Coal Co. is now putting in machines at No. 10 colliery, Mount Olive.

*The Product.*—The output for this year shows a gain of 551,629 tons over that reported last year. Macoupin county shows an output of 1,369,919 tons. The machine mines of the districts have worked more regularly than the hand mines, the output of the machine mines show 1,615,453 tons, or about 44 per cent. of the total output; Madison county shows a gain of 156,047 tons which is accounted for by the steady working of the machine mines; Macoupin county shows a gain of 167,712 tons, which is also accounted for by the steady working of the machine mines at Staunton and Mount Olive; Sangamon county shows a gain of 33,876 tons, which is accounted for by the regular working of the Sangamon Coal Cos'. shafts; Montgomery county, shows a gain of 34,192 tons, which can be accounted for by the new shaft at Coffeen; Christian county shows a gain of 186,677 tons, which is accounted for by the operating of her new collieries. The output of Christian county for the year is 439,451 tons which shows this county will be one of the large mining counties in the near future. Macon county has a loss of 54,259 tons, which is owing to the stoppage of the Niantic colliery, by losing their engine house by fire, and the Decatur shafts not working during May and June. The outlook is for a larger output, new railroads are building into the coal-fields of Madison and Macoupin counties, which will open out new territory for the coal, and various important improvements are in contemplation at the mines, for cheapening the production.

*Fatal Accidents.*—John A. Foster, a widower, aged 31 years, was killed July 11, 1889, at No. 1 colliery of the Pana Coal Co. He had fired a shot in the face of the room where he worked; the powder had blown up into the roof next to the face of the coal, the top-coal was still standing up, but in taking down the top-coal the slate became loosened at the face and the coal and slate all came away together and caught him.

Henry Johnson, a single man, aged 21 years was killed July 31, 1889, at the Consolidated Coal Company's St. Barnard colliery at Clyde. Johnson was a machine-helper and was working with the machine-runner. They were undermining the coal when a large body of coal fell from a slip and caught Johnson. The slip from where the coal fell could not be seen.

John Schneider, a married man, aged 36 years, was killed August 9, 1889, at the Consolidated Coal Company's colliery No. 6, at Staunton. Schneider and his partner were loading coal at the face of a room; there was some top-coal up and there was a slip in the roof above the top-coal which could not be seen. The coal and slate dropped away from the slip killing Schneider instantly.

Wm. Brothers and Wm. Leetham, both married, and aged 34 and 47 years respectively, were injured September 5, 1889, by an explosion of fire-damp in No. 2 colliery of the Pana Coal Co. Wm. Leetham died September 15, 1889. Wm. Brothers for a short time seemed to be getting well, as he was going around, however, he had a relapse, bursting a blood vessel

and died October 28, 1889. Thos. E. Jackson, night manager, with Brothers and Leetham, timbermen, were employed in the night shift, putting in timber cribs near the mouth of the 1st and 2d north entries on the west side of the shaft, with a view of putting in permanent stoppings, as the entries had been abandoned. Jackson and Brothers were working at the cribs, a strong current of air was passing between where the men were working and the old and abandoned entries. Leetham was looking around for some timber to make wedges to be used in the cribs; it appears he had passed beyond the ventilating current with his naked light, an explosion of fire-damp occurred, burning Leetham severely; the force of the explosion threw the timbers and debris on to Jackson and Brothers, and all three of the men were badly injured. Jackson recovered and is at work again.

John Graff, a married man aged 36 years, was killed September 14, 1889, at Wolf Bros' colliery, Edwardsville. The coal had been shot down, leaving some top-coal up. Graff was engaged taking the top-coal down, and there was a slip at the back of the coal which could not be seen from the front, the shot having blown up into the slip caused the coal and clod to fall away very suddenly. Graff was caught under the clod.

August Kruck, a single man, aged 16 years, was killed September 19, 1889, at No. 1 colliery of the Decatur Coal Co. Kruck was killed at the bottom of the shaft. It was supposed his lamp was out when he came to the bottom of the shaft with his trip; he brought out five boxes, ten others were standing on the side track, and in trying to loosen the tail-chain of the mule, his head was caught between the cars.

John Fath, a widower aged 64 years, was killed December 11, 1889, at Girard, by being crushed by pit-cars. The driver was coming down a grade with five cars, from which the two rear cars had become unhitched. Fath and partners were working on stoppings on the entry, the driver gave notice to Fath and partners that two cars were coming down the grade behind him. As soon as the driver passed Fath stepped on to the track, his partners called out to him to get out of the way of the two cars, Fath being a little deaf, he must have failed to hear them.

Wm. Collingwood, a married man, aged 54 years, was killed at W. H. Bates & Co.'s shaft, at Winchester, February 5, 1890. Collingwood was engineer at the colliery, and was killed by the explosion of one of the boilers.

Edward McLain, a married man, aged 53 years, was killed March 19, 1890, at the Springfield Junction Coal Co.'s shaft. McLain was passing under the cage while it was in motion, the cage came down and caught him.

George Dusenko, a married man aged 24 years, was killed April 16, 1890, at the Consolidated Coal Co.'s Colliery No. 8, Mount Olive. Dusenko was a machine-helper; the machine-runner had left the face of the room, and Dusenko was learning to run the machine. He started the machine, when a piece of coal weighing 800 pounds fell from the face of an old shot and caught him.



*Fatal Casualties—Fourth District.*

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widows.	Children.	Cause of Accident.
1889.									
July 11	Foster, John A.	31	Miner.....	Pana.....	1	1	1	1	Falling coal and slate...
Aug. 31	Johnson, Henry	21	Machine-help..	Clyde.....	1	1	1	1	Falling coal.....
Aug. 9	Schneider J....	36	Loader.....	Staunton....	1	1	1	2	Falling coal and slate...
Sept. 5	Leetham, Wm..	47	Timberman....	Pana.....	1	1	1	1	Explosion of fire-damp.
" 5	Brothers, Wm..	34	Timberman....	Pana.....	1	1	1	1	Explosion of fire-damp.
" 14	Graft, John....	36	Timberman....	Edwardsville.	1	1	1	1	Falling clod.....
" 19	Kruck, August.	16	Driver.....	Decatur.....	1	1	1	1	Crushed betwe'n pit-cars
Dec. 11	Fath, John.....	64	Timberman....	Girard.....	1	1	1	1	Crushed by pit-cars....
1890.									
Feb. 5	Collingwood W.	54	Engineer.....	Winchester...	1	1	1	1	Boiler explosion.....
Mch. 19	McLain, Ed....	53	Miner.....	Iles Junction.	1	1	1	3	Crushed descend'g cage
Apr. 16	Dusenko, Geo..	24	Machine-help..	Mount Olive..	1	1	1	1	Falling coal.....
	Totals.....				7	4	7	7	

\* Widowers.

## RECAPITULATION.

Residence.	No.	Occupation.	No.	Cause.	No.	Per cent.
Clyde.....	1	Helper.....	2	Falling coal and slate.....	3	27+
Decatur.....	1	Driver.....	1	Falling coal.....	2	18+
Edwardsville.....	1	Timberman....	4	Explosion of fire-damp.....	2	18+
Girard.....	1	Miner.....	2	Crushed between pit-cars.....	2	18+
Iles Junction.....	1	Loader.....	1	Boiler explosion.....	1	9+
Mount Olive.....	1	Engineer.....	1	Crushed by descending cage.	1	9+
Pana.....	3					
Staunton.....	1					
Winchester.....	1					
Totals.....	11		11		11	100.

9 were killed instantly.  
 1 lived ten days.  
 1 lived about eight weeks.

11

No of Men.	Name of company, firm or individual by which employed.
3	Pana Coal Co.....
3	Consolidated Coal Co.....
1	Wolf Brothers.....
1	Decatur Coal Co.....
1	Girard Coal Co.....
1	Bates & Co.....
1	Springfield Junction Coal Co.....
11	

## Non-Fatal Casualties—Fourth District.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Character of injury and cause of accident.	Time lost, days.
1889.								
June 2	Sweet, Frank.....	17	Niantic.....	1			Back and leg injured by pit-cars.	21
" 6	O'Neil, Thos.....	36	Springfield.....	1			Leg inj., coal falling down chute.	45
July 2	Clark, Jos.....	45	Mt. Olive.....	1			Foot injured by falling slate.	30
Aug. 16	Schaubert, H.....	32	".....	1			Coll'r-bone broken by falling slate.	45
" 9	Werner, Erenst.....	40	Staunton.....	1			Back injured by falling slate.	60
" 9	Becker, D.....	28	Pana.....	1			Leg broken by falling slate.	75
" 12	Sauerberg, T.....	37	Staunton.....	1			Body injured by pit-cars.	45
" 19	Jansen, Harne.....	28	Mt. Olive.....	1			1 Finger cut off by R. R. cars.	21
" 22	McKnight, Wm.....	23	Chatham.....	1			Leg injured by falling coal.	24
" 30	Coatney, James.....	24	Bunker Hill.....	1			1 Body bruised by falling slate.	60
Sep. 5	Jackson, T. E.....	32	Pana.....	1			Body burned by explosion of fire-damp.	21
" 6	Struck, Herman.....	47	Staunton.....	1			3 Leg broken by pit-cars.	75
" 9	Bonner, Ulyses.....	22	Mt. Olive.....	1			Internally injured by pit-cars.	30
" 9	Tuckman, Sam.....	31	Chatham.....	1			2 Body injured by coal from a shot.	44
" 14	Dirks, Fred.....	35	Pana.....	1			2 Body injured by falling coal.	180
" 25	Shue, Chas.....	22	Edinburg.....	1			2 Body injured by premature blast.	30
Oct. 3	Rape, T. J.....	34	Edinburg.....	1			2 Body injured by falling coal.	50
" 3	Cave, Wm.....	32	Springfield.....	1			3 Arm broken by pit-cars.	60
" 10	Meehan, F.....	60	Pana.....	1			Collar-bone broken by falling slate.	60
" 14	Muir, Sam.....	50	Decatur.....	1			6 Body burned by explosion of fire-damp.	17
" 25	Adamson, James.....	24	Decatur.....	1			2 Leg injured by falling coal.	66
" 28	Ryan, John.....	25	Decatur.....	1			Foot injured by falling coal.	18
" 28	Mathias, John.....	51	Springfield.....	1			Leg broken by falling coal from shot.	90
Nov. 1	Doathoff, Geo.....	26	Mt. O. ive.....	1			2 Body injured by pit-cars.	37
" 2	Smith, Deb.....	30	Taylorville.....	1			3 Collar-bone broken by pit-cars.	44
" 8	Richardson, David.....	30	Gillespie.....	1			2 Foot injur'd by falling coal in room.	20
" 13	Reinhold, Paul.....	18	Staunton.....	1			Collar-bone broken by falling coal.	44
" 22	Keul, Ja. ob.....	43	Mt. Olive.....	1			7 Body injur'd by falling coal in room.	15
" 23	Landrigan J.....	45	Springfield.....	1			1 Body burned by premature blast.	
" 27	Seubert, Geo.....	40	Staunton.....	1			3 Nose broken by kick from mule.	37
" 27	McCann, P.....	56	Niantic.....	1			6 Leg injured by pit-cars.	14
" 27	Cruthis, Frank.....	30	Sorento.....	1			5 Fingers (3) broken by falling slate.	30
Dec. 6	Merman, Jno.....	18	Staunton.....	1			Leg broken by falling coal.	60
" 9	Clark, C. C.....	35	Gillespie.....	1			2 Foot injured by pit-cars on surface.	75
" 12	Scott, John.....	35	Springfield.....	1			3 Body injured by coal from shot.	21
" 13	Ludwich, Aug.....	32	Collinsville.....	1			Foot injur'd by falling coal in room.	75
" 17	McCooch, Jas.....	47	Staunton.....	1			4 Body injured by falling slate in room.	14
" 19	Ahrens, Geo.....	29	Staunton.....	1			3 Body bruised by pit-cars.	21
" 28	Martena, Gottlieb.....	35	Decatur.....	1			4 Arm injured by pick.	27
1890.								
Jan. 2	Robson, And.....	47	Carlinville.....	1			3 Leg broken by falling slate.	90
" 3	Hansen, Jacob.....	54	Mt. Olive.....	1			Body injured, iron falling from machine.	7
" 4	Havrimak, J.....	40	Mt. Olive.....	1			1 Back injured by falling slate.	30
" 15	McGinty, Mike.....	50	Decatur.....	1			Leg broken by falling coal.	90
" 20	Gordon, J. M.....	22	Pana.....	1			Body injured by pit-cars.	20
" 25	Humphrey, Wm.....	25	Pl'snt Pl'ns.....	1			1 Back injured by falling slate.	20
Feb. 5	O'Brien, Wm.....	30	Pana.....	1			1 Foot crushed by pit-cars.	19
" 5	Manley, T. H.....	45	Coffeen.....	1			4 Body injured by falling slate.	60
" 18	Reuter, Henry.....	16	Mt. Olive.....	1			Wrist injured by pit-cars.	30
" 22	Ankum, Her.....	34	Mt. Olive.....	1			3 Body injured, premature blast, ignited by fire-damp.	21
" 24	Woodman, John.....	35	Jacksonville.....	1			2 Hip injured by falling slate.	18
" 26	Twedy, Nat.....	40	Worden.....	1			2 Finger cut off by falling coal.	45
Mar. 1	Lynch, Mike.....	50	Springfield.....	1			6 Hand crushed by pit cars.	120
" 8	Jacovatz, Simon.....	23	Mt. Olive.....	1			1 Back injured by falling slate.	30
" 10	Gallon, Wm.....	30	Decatur.....	1			3 Foot injured by falling slate.	6
" 24	Hughes, Pat.....	22	Mt. Olive.....	1			Body injured by falling coal.	90
" 27	Mefford, S. B.....	33	Gillespie.....	1			2 Leg broken by fall ng coal.	75
Apr. 2	Alexander, Jas.....	14	Staunton.....	1			Foot injured by descending cage.	14
" 3	Hunsinger, Phil.....	30	Staunton.....	1			2 Wrist dislocated and body injured by falling slate.	14
" 10	Willoughby, L.....	28	Pana.....	1			2 Foot injured by falling slate.	12
" 15	Yeager, James.....	22	Smithsboro.....	1			Leg injured by falling slate.	15
" 18	True, James.....	27	Pana.....	1			1 Thumb mashed by pit-cars.	14
May 3	Scully, Martin.....	53	Collinsville.....	1			2 Leg broken by falling coal.	75
" 6	Corles, Wm.....	33	Springfield.....	1			1 Back injured by falling slate.	30
" 12	Stout, Frank.....	32	Pana.....	1			4 Ankle and foot bruised by falling slate.	25

*Non-Fatal Casualties.—Concluded.*

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Character of injury and cause of accident.	Time lost, days.
May 23	Watson, Ed.....	21	Pana.....	1	1	Nose mashed by falling slate.....	14
" 23	Sexton, Marion.....	31	Gillespie.....	1	1	1 Collar-bone broken by falling coal.....	60
" 30	Young, Loyal.....	42	Pana.....	1	1	4 Ankle bruised by falling slate.....	44
" 30	Roper, Robert.....	60	Taylorville.....	1	1	5 Rib broken by falling over coal in room.....	30
June 20	Gillman, D. B.....	38	Pana.....	1	1	4 Foot crushed by falling coal.....	30
" 24	Moore, N.....	37	Pana.....	1	1	3 Leg injured by falling coal.....	30
" 25	Kuchneer, G.....	29	Staunton.....	1	1	Leg injured by falling coal.....	30
				53	18	137	†

\* Not yet recovered.

† An average of 42 days to each man.

Of the 8 who had broken legs, each lost an average of 80 days. Three of these were married men and had 20 persons dependent on them for subsistence; they lost an average of 75 days each.

## RECAPITULATION OF NON-FATAL CASUALTIES.

Residence.	No. of men.	Occupation.	No. of men.	Causes.	No. of men.	Per cent.
Bunker Hill.....	1	Blaster.....	3	Blast discharge.....	4	5.63
Carlville.....	1	Boss, night.....	1	Cage.....	1	1.41
Chatham.....	2	Cagers.....	4	Falling coal.....	20	28.17
Coffeen.....	1	Car-piler.....	1	Falling slate.....	22	31.
Collinsville.....	2	Drivers.....	8	Falling down chute.....	1	1.41
Decatur.....	6	Helpers.....	5	Falling over coal.....	1	1.41
Edinburg.....	2	Laborer.....	1	Fire-damp.....	3	4.22
Gillespie.....	4	Loaders.....	7	Kick of mule.....	1	1.41
Jacksonville.....	1	Manager.....	1	Machine.....	1	1.41
Mount Olive.....	12	Miners.....	35	Pick.....	1	1.41
Niantic.....	2	Roadman.....	1	Pit-cars.....	15	21.12
Pana.....	13	Timberman.....	2	Ry. cars.....	1	1.41
Pleasant Plains.....	1	Trimmers.....	2			
Smithsboro.....	1					
Sorento.....	1					
Springfield.....	7					
Staunton.....	11					
Taylorville.....	2					
Worden.....	1					
	71		71		71	100.00

Character of injury.	No. of men.	Per cent.	Occupation.	Number.	Name of company, firm or individual by which employed.	Number.
Ankles injured.....	2	2.82	Blasters....	3	Consolidated Coal Company....	29
Arms broken.....	1	1.41	Boss, night.	1	Pana Coal Company.....	13
Arms injured.....	1	1.41	Cagers.....	4	Decatur Coal Company.....	6
Backs injured.....	*6	8.45	Car-piler...	1	Sangamon Coal Co.....	3
Bodies injured.....	19	26.76	Drivers.....	8	City Coal Company.....	2
Collar-bones broken..	5	7.04	Helpers....	5	Chatham Coal Company.....	2
Fingers broken.....	2	2.82	Laborer.....	1	Edinburg Coal Company.....	2
Fingers cut off.....	2	2.82	Loaders....	7	Taylorville Coal Company.....	2
Feet injured.....	10	14.08	Managers....	1	Springfield Coal & Tile Co....	1
Hand injured.....	1	1.41	Miners.....	35	Mount Olive Coal Company....	1
Hip injured.....	1	1.41	Roadman....	1	T. L. Loomis, lessee.....	1
Internally injured....	1	1.41	Timbermen..	2	Pleasant Plains Coal Company.	1
Legs broken.....	8	11.26	Trimmers..	2	West-end Coal Company.....	1
Legs injured.....	7	9.86			Capital Co-operative Coal Co.	1
Noses broken.....	2	2.82			Central Coal Company.....	1
Ribs broken.....	1	1.41			Sorento Coal Company.....	1
Wrists injured.....	†2	2.82			Smithboro Coal & Mining Co...	1
					Jacksonville Coal & Mining Co.	1
					Bunker Hill Coal Company.....	1
					Coffeen Coal Company.....	1
	71	100.00		71		71

\* One had leg also injured.

† One had body injured also.

The following tables give detailed information relating to each mine in the district and a recapitulation by counties.

Respectfully submitted,

WALTON RUTLEDGE,

*Inspector 4th District, Alton.*

*Bond County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Smithsboro C. M. Co.	Smith's bro	30	45	10	3	292	1,100	..	1	\$0 56½	\$0 56½	32,420	\$0 85
Sorento Coal Co.....	Sorento...	32	44	12	1	210	825	..	1	\$0 56½	\$0 56½	34,326	\$0 80
Totals (2 mines).....	.....	62	89	22	4	.....	1,925	..	2	.....	.....	66,746	.....
Averages .....	.....	.....	.....	.....	.....	251	.....	..	.....	\$0 50.59	\$0 50.59	.....	\$0 82.43

*Calhoun County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Thomas Press Brick Co.'s Mine.....	Brussels..	*5	5	1	.....	253	85	..	..	\$1 00	\$1 00	1,468	\$2 00
Totals (1 mine).....	.....	5	5	1	.....	253	85	..	..	.....	.....	1,468	.....
Averages .....	.....	.....	.....	.....	.....	.....	.....	..	..	\$1 00	\$1 00	.....	\$2 00

\* The miners only work at the coal part of their time, clay being the principal product.

*Christian County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Pana C.Co.,Nos.1 & 2	Pana .....	127	230	65	10	260	820	3	4	\$0 50	\$0 50	216,766	\$0 76
Penwell C. Co.....	Penwell .....	90	145	39	1	254	620	9	9	50	50	135,747	74
Taylorville C. Co....	Taylorville..	57	86	10	...	225	1200	...	...	50	50	60,179	80
Edinburg C. Co.....	Edinburg.....	15	29	7	1	241	411	2	2	56½	60	13,925	81
Assumption C. Co....	Ass'ption.....	25	25	6	...	297	201	...	...	70	70	6,224	1 25
Springside C. Co. a	Pana .....	48	...	16	...	141	152	...	...	50	.....	7,210	80
Totals (7 mines).	.....	362	515	143	12	.....	3404	3	17	.....	.....	439,451	.....
Averages.....	.....	...	...	...	...	236.3	...	...	...	\$0 50.52	\$0 50.68	.....	\$0 76.84

a New colliery; began to hoist coal January 1, 1890.

† 51,210 tons mined by machine.

*Effingham County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
D. T. Kuffel.....	Altamont...	1	2	...	...	125	...	...	...	\$1 00	\$1 00	315	\$1 50
Croft Greider .....	.....	1	3	1	...	95	...	...	...	75	75	425	1 50
Jas. Poe.....	Effingham...	...	2	...	...	14	...	...	...	...	...	40	1 50
J. Mahon.....	Welton .....	...	2	...	...	6	...	...	...	...	...	15	1 50
Totals (4 mines).....	.....	2	9	1	...	...	...	...	...	...	...	796	.....
Averages.....	.....	...	...	...	...	110	...	...	...	\$0 85.63	\$0 85.63	.....	\$1 50

*Greene County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed underground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Victor C. C., E. Briggs	Roodho'se	6	10	2	...	252	...	...	...	\$1 00	\$1 00	2,690	\$1 75
Thos. Carter	"	4	9	1	...	248	...	...	...	1 00	1 00	2,420	1 75
Rich Carrollton	"	1	2	1	...	125	...	...	...	1 00	1 00	225	1 75
Jas. Minks	"	1	1	1	...	131	...	...	...	1 00	1 00	281	1 75
Sam Isreal	"	1	3	...	...	140	...	...	...	1 00	1 00	294	1 75
Talkington & Hicks	Athens'le	2	4	...	...	241	...	...	...	1 00	1 00	321	1 75
Chas. Rumsey	Roodho'se	2	2	1	...	180	...	...	...	1 00	1 00	251	1 75
John Griffe	"	3	6	...	...	251	...	...	...	1 00	1 00	420	1 75
Jas. Bigley	"	1	1	...	...	128	...	...	...	1 00	1 00	192	1 75
Whitehall C. & T. Co.	Whitehall.	10	12	1	...	250	...	...	...	1 00	1 00	4,012	1 75
John Smith	"	2	4	1	...	226	...	...	...	1 00	1 00	332	1 75
Thos. Wyatt	"	3	4	...	...	220	...	...	...	1 00	1 00	326	1 75
Totals (12 mines)...	.....	35	59	8	...	...	...	...	...	.....	.....	11,714	.....
Averages .....	.....	...	...	...	...	199.3	...	...	...	\$1 00	\$1 00	.....	\$1 75

*Jasper County—Fourth District—1890.*

[illegible]

*Jersey County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Philip Boehler .....	Brighton.	32	5	1	....	192	....	..	..	\$1 00	\$1 00	1,210	\$1 50
John Motley .....	Delhi.	33	6	..	....	260	....	..	..	1 00	1 00	1,830	1 50
Michael Burns .....	Brighton.	32	6	..	....	230	....	..	..	1 00	1 00	1,638	1 50
Michael Curren .....	..	32	5	..	....	210	....	..	..	1 00	1 00	1,330	1 50
Jacob Grauer .....	..	32	4	..	....	215	....	..	..	1 00	1 00	920	1 50
Alex. Cairns .....	..	32	3	..	....	201	....	..	..	1 00	1 00	602	1 50
Totals (6 mines) .....		15	29	1	....	..	....	..	..			7,500	.....
Averages .....		..	..	..	....	216.3	....	..	..	\$1 00	\$1 00	.....	\$1 50

*Macon County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine .....
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Decatur C. C. No. 1.	Decatur...	88	125	30	4	273	....	1	1	\$0 70	\$0 70	67,320	\$1 30
City Coal Co. .... 2.	Niantic....	75	120	35	5	273	....	..	5	70	70	65,410	1 30
		61	89	29	25	202	2316	..	..	55	60	46,320	90
Totals (3 mines) ..		224	334	94	12	..	2316	1	8	.....	.....	179,050	.....
Averages .....		..	..	..	..	249.3	....	..	..	\$0 66.12	\$0 67.41	.....	\$1 19.65



*Macoupin County—Fourth District—1890.*

Name of firm, company or per- son operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners em- ployed		All other em- ployés.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Cas- ualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Con. C. C., St. L., Mo.													
No. 6 colliery...	Staunton..	.....	.....	272	6	232	2,697	1	7	<i>b</i>	.....	285,308	\$0 82
" 7 " "	" "	.....	.....	153	4	219	1,337	"	4	<i>b</i>	.....	147,669	82
" 8 " "	St. Olive..	.....	.....	226	7	229	1,772	1	5	<i>b</i>	.....	230,442	82
" 10 " "	" "	157	187	28	5	234	921	"	6	\$0 50	\$0 50	184,588	82
Gillespie " "	Gillespie..	.....	.....	143	4	254	1,347	"	4	<i>b</i>	.....	142,525	1 00
St. Barnard " "	Clyde.....	.....	.....	74	2	265	660	1	"	<i>b</i>	.....	63,776	1 00
T. J. Loomis, les'e	Carlinville	22	32	8	"	268	351	"	1	50	50	13,960	80
Mt. Olive Coal Co	Mt. Olive..	.....	.....	61	1	173	412	"	1	<i>b</i>	.....	41,915	60
Bunker Hill C. Co	Bunk'r Hill	9	20	4	"	210	180	"	"	77½	77½	16,110	1 25
Wm. G. Bartells..	Carlinville	8	19	4	1	220	213	"	"	56¼	56¼	11,656	1 00
Carbon Coal Co...	Nilwood ..	40	50	8	3	210	521	"	"	50	50	38,290	80
Girard Coal Co...	Girard ....	90	125	100	11	302	3,012	1	"	<i>c</i> 50	50	140,812	75
J. W. Utt's heirs.	Virden....	54	65	15	"	232	940	"	"	50	50	41,022	80
Shipman Coal Co.	Shipman...	5	9	4	"	140	84	"	"	75	75	1,440	1 62
Davis Bros.....	Chesterfd	3	6	1	"	242	"	"	"	87½	87½	2,620	1 50
Cogger & Co.....	" "	3	5	1	"	231	"	"	"	87½	87½	2,329	1 50
Beilby & Co.....	" "	3	6	1	"	251	"	"	"	87½	87½	2,512	1 50
Baer & Co.....	Fosterb'rg	4	6	1	"	214	12	"	"	75	75	2,824	1 25
John Hurt.....	Scottsville	.....	1	"	"	<i>d</i> 35	"	"	"	1 00	1 00	57	1 75
Wm. Carling.....	" "	.....	1	"	"	<i>d</i> 42	"	"	"	1 00	1 00	64	1 75
Totals (20 mines)	.....	398	532	1104	44	.....	14489	4	29	.....	.....	41,369,919	.....
Averages.....	.....	.....	.....	.....	.....	229.2	.....	.....	.....	\$0 52.14	\$0 52.14	.....	\$0 84.39

*b* Machine mines.*c* Machine and hand mining.*d* Not included in average number days worked.

†945,469 tons mined by machines.

*Madison County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Con. C. Co., St. L. Mo													
Abbey No. 3.....	Collinsville	....	....	148	2	269	1,809	1		b		166,245	\$0 82
Heintz Bluff.....		....	....	147	2	276	1,888	1		b		172,864	82
Brookside.....	Troy	32	41	14	1	231	556			\$0 50	\$0 50	37,115	1 00
Troy.....		....	....	101	2	243	686					76,173	1 00
Worden, No. 12..	Worden	24	42	7	1	105	277	1		50	50	18,613	82
McDonald.....		2	3	3		90	9			50	50	1,039	82
Wolf Br's. C. & M. Co	Edwardsville	....	....	103	2	288	824	1		b		92,110	82
P. Wonderly & Co..		25	35	5		190	212			45	50	17,210	85
Lumaghis Mine "a"	Collinsville	28	32	14	1	297	1,040			a		34,220	90
Alton S. & T. B. Co.	Alton Jun	....	....	2		250				75	75	3,110	1 50
Nathan Syddell.....	Nor. Alton	5	6	1		252				1 00	1 00	2,724	1 50
Thos. Cowling.....		4	6	1						1 00	1 00	3,021	1 50
Jas. Mitchells heirs..		5	6	1		240				1 00	1 00	3,220	1 50
Pierce Bros.....		3	3	1		220				1 00	1 00	1,822	1 50
Thos. Canavan "c"....		1	1	2		180				1 00	1 00	347	1 50
Wm. Chanelsworth.....	Fosterbr'g	4	6	1		227				75	75	2,702	1 50
Hill Bros.....		3	6	1		201				75	75	1,622	1 50
Henry Myer.....	Bethalto...	3	5	1		247				75	75	2,420	1 50
Herman Kable "c"....		4	6	1		289				75	75	3,320	1 50
Wm. Wilkinning.....	Moro.....	2	5	1		220				75	75	2,114	1 50
Green & Monahan.....		3	4	1		218				75	75	1,812	1 50
Wm. Richardson.....		3	6	1		205				75	75	2,120	1 50
Wm. Owens.....		1	2	1		175				75	75	285	1 50
Totals (23 mines)....		159	226	557	11	7,301	1 3					164,228	
Averages.....						225.8				\$0 59.16	\$0 59.98		\$0 88.88

a Miners and loaders paid by the car; drivers and laborers \$1.75 per day.

b Machine mines.

c New mines.

+ 507,392 tons mined by machines.

*Montgomery County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Litchfield Coal Co...	Litchfield.	20	32	5	1	267	...	...	...	\$0 75	\$0 75	15,320	\$1 25
Hillsboro Coal Co*..	Hillsboro...	20	38	7	1	280	301	...	...	50	50	12,187	85
Coffeen Coal Co.....	Coffeen...	50	60	10	...	265	502	1		50	50	31,110	85
Totals (3 mines)....		90	130	22	2	803	...	1				58,617	
Averages.....						270.7	...			\$0 76.53	\$0 56.53		\$0 95.45

\* Kirtkamp Bros., lessee.

*Morgan County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Jacksn. C. & M. Co.	Jacksn's	25	48	12	....	289	....	1	....	\$1 00	\$1 00	11,667	\$1 62
F. Wagstaffe.....	Murryville	2	5	1	....	95	....	....	....	1 00	1 00	4,112	1 73
Thompson's Coal M.	Bethel	4	6	1	....	201	....	....	....	1 25	1 25	687	1 65
R. H. Vortman.....	Neelyville.	....	1	....	....	91	....	....	....	1 25	1 25	135	1 75
Totals (4 mines)....	.....	31	60	14	....	....	....	1	....	....	....	16,601	....
Averages .....	.....	....	....	....	....	195	....	....	....	\$1 0123	\$1 0123	....	\$1 65.45

*Pike County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
W. V. Huntley.....	Cool Bank	....	2	....	....	20	....	....	....	....	\$1 25	44	\$2 00
M. V. Huntley.....	Baylis	....	2	....	....	18	....	....	....	....	1 25	36	2 00
Geo. Seaborn.....	Perry	....	....	2	....	8	....	....	....	....	....	10	2 00
Edwin Cooley.....	Fish Hook	....	....	2	....	6	....	....	....	....	....	8	2 00
Wm. Fee.....	..	....	....	2	....	8	....	....	....	....	....	11	2 00
Frank Walters.....	..	....	....	1	....	10	....	....	....	....	....	10	2 00
Benj. Null.....	..	....	....	2	....	6	....	....	....	....	....	6	2 00
Isaac Davis.....	..	....	....	2	....	10	....	....	....	....	....	10	2 00
Totals (8 mines)...	.....	....	4	11	....	....	....	....	....	....	....	135	....
Averages .....	.....	....	....	....	....	10.8	....	....	....	\$1 25	....	....	\$2 00

*Richland County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.								PRODUCTS AND VALUES.			
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Peter Berry.....	Berryville	...	2	...	12	...	...	...	...	...	...	40	\$2 00
Geo. Slover.....	.....	...	1	...	16	...	...	...	...	...	...	20	00
Charles Hundley....	Calhoun..	...	1	...	10	...	...	...	...	...	...	12	00
J. Emery.....	.....	...	1	...	16	...	...	...	...	...	...	20	00
H. H. Harman.....	.....	...	2	...	10	...	...	...	...	...	...	22	00
Wm. Lemke.....	Parks'b'rg	...	2	...	22	...	...	...	...	...	...	40	00
Totals (6 mines)..	.....	...	2	7	...	...	...	...	...	...	...	154	.....
Averages.....	.....	...	...	...	14.3	...	...	...	...	...	...	.....	\$2 00

*Sangamon County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Auburn Co-op. C. C.	Auburn....	10	22	6	1	242	420	..	..	\$0 50	\$0 50	10,986	\$0 90
Chat'm Co-op. C. C.	Chatham...	25	35	8	..	232	582	..	2	50	50	14,110	82
Barclay C. & M. C.	Barclay...	75	125	25	3	210	3,104	..	..	55	60	62,525	85
Bl'k Dia. C. & T. C.	Iles June...	40	70	18	2	240	2,110	..	..	55	60	58,325	90
Central Coal Co...	Springf'ld	35	60	15	2	256	2,116	..	1	62½	62½	31,220	90
Capital Co-op. C. C.	.....	...	...	...	...	...	...	...	...	...	...	...	...
No. 1 Colliery....	"	14	28	15	1	301	960	..	..	57½	62½	21,140	85
No. 2 Colliery....	"	30	60	25	2	301	2,116	..	1	57½	62½	55,024	97½
Illinois Fuel Co...	Riverton...	10	49	19	1	186	1,855	..	..	b 55	60	71,948	90
Riverton C. & M. C.	"	100	175	20	4	202	3,218	..	..	55	60	101,930	80
Spring'd Jun. C. C.	Iles June...	20	80	5	1	145	1,800	..	...	55	60	44,957	85
" Co-op. C. C.	Ridgely...	50	70	20	2	250	1,400	..	...	60	60	38,410	90
" & P. P. C. C.	Plas'nt Ps	6	13	5	1	260	216	..	1	60	60	5,487	1 00
" Coal & T. C.	Ridgely...	51	102	14	3	210	2,231	..	1	60	62	55,773	85
Welsh, Starn & Co.	Springf'ld	56	73	27	2	204	2,281	..	...	57	60	55,795	87
Tracy, Fisher & C.	Springf'ld	62	104	12	2	281	4,409	..	3	55	60	101,352	87
Wil. & Sp'g'd C. C.	Ridgely...	...	...	...	...	275	1,382	..	...	a	...	78,007	85
West End Mine....	Springf'ld	25	80	15	1	175	915	..	1	62½	62½	25,145	1 00
Wabash Coal Co...	Dawson...	50	82	14	4	221	2,012	..	..	60	62½	41,754	82
Totals (18 mines).	.....	659	1228	345	35	...	33667	1 10	...	...	...	*879,888	.....
Averages .....	.....	...	...	...	...	232.8	...	...	...	\$0 56.74	\$0 60.4	.....	\$0 87.99

a Machine mine.

b Machine and hand-mining.

\* 111,382 tons mined by machine.

*Scott County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employed.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Wm. H. Bates & Co.	Winch'str	25	42	7	....	279	379	1	..	\$1 12½	\$1 12½	13,274	\$1 50
Chas. Poo'e	"	2	3	1	....	240	....	..	..	1 12½	1 12½	482	1 50
Hugh McGuire	"	1	1	..	1	210	....	..	..	1 12½	1 12½	360	1 50
McGuire Bros.	Alsey	2	5	1	1	204	....	..	..	1 12½	1 12½	4,080	1 50
Elihu Armitage	Exeter	..	2	..	..	90	....	..	..	1 12½	1 12½	43	1 50
James F. Morris	"	..	2	..	..	112	....	..	..	1 12½	1 12½	362	1 50
John Brady	Winch'str	1	2	..	..	250	....	..	..	1 12½	1 12½	750	1 50
Isaac Carolton	"	1	1	..	1	120	....	..	..	1 12½	1 12½	210	1 50
John Miller	Alsey	1	1	..	..	210	....	..	..	1 12½	1 12½	305	1 50
Ed. O'Donnell	Winch'str	1	1	1	..	92	....	..	..	1 12½	1 12½	121	1 50
J. H. Stewart	Exeter	..	1	..	..	32	....	..	..	1 12½	1 12½	35	1 50
Totals (11 mines) ..	.....	34	61	10	3	....	379	1	..	.....	.....	20,022	.....
Averages .....	.....	.....	.....	.....	.....	167.2	.....	.....	.....	\$1 12½	\$1 12½	.....	\$1 50

*Shelby County—Fourth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
John Richardson....	Shelbyv'le	6	10	4	....	251	....	..	..	\$1 25	\$1 25	5,210	\$1 75
C. J. Kurtz & Co.....	"	11	11	2	....	240	....	..	..	1 25	1 25	3,210	1 75
Michael Brophy.....	"	2	5	1	....	210	....	..	..	1 25	1 25	3,275	1 75
John Stockdale.....	Rob's'nCk	2	3	..	..	140	....	..	..	1 25	1 25	622	1 75
Thos. Auston & Co....	Lakewood	..	2	..	..	30	....	..	..	1 25	1 25	62	1 75
John Cartlago.....	Fancher	2	6	1	....	240	....	..	..	1 25	1 25	4,120	1 75
Kelly & Co.....	Shelbyv'le	2	6	1	....	172	....	..	..	1 25	1 25	1,421	1 75
Frank Walker.....	Henton...	....	1	1	....	92	....	..	..	1 25	1 25	103	1 75
Totals (8 min s) ...	.....	19	44	10	....	.....	.....	.....	.....	.....	.....	18,023	.....
Averages .....	.....	....	....	....	....	192	....	....	....	\$1 25	\$1 25	.....	\$1 75

## Recapitulation by Counties—Fourth District—1890.

COUNTIES.	MINES.				MINERS.								PRICES AND PRODUCTS.				
	Number of mines.	Shipping mines.		Abandoned mines.	No of miners and mine employes.					Average number of days worked.	Number of kegs of powder used.	Casualties.		Average price paid per ton for hand-mining.	Total tons of coal mined.	Average value per ton at the mine.	Aggregate value of total product.
		Mines in local trade.	New mines.		Miners, sum-mer.	Miners, win-ter.	Other em-ployes.	Boys under ground.	Killed.			Injured.					
Bond .....	2	2	...	...	62	89	22	4	251	1,925	...	2	\$0 50.59	66,746	\$0 82.43	\$5,518	
Calhoun...	1	...	1	...	5	5	1	...	253	85	...	...	1 00	1,468	2 00	2,936	
Christian..	7	7	...	2	362	515	143	12	236.3	3,404	3	17	50.52	439,451	76.84	337,679	
Effingham	4	...	4	...	2	9	1	...	110	...	...	...	85.63	796	1 50	1,195	
Greene ....	12	1	11	5	35	59	8	...	199.3	...	...	...	1 00	11,714	1 75	20,501	
Jasper.....	6	...	6	3	15	29	1	...	216.3	...	...	...	1 00	7,500	1 50	11,250	
Jersey ....	1	...	1	1	...	...	8	...	20	...	...	...	*	152	2 00	304	
Macon.....	3	3	...	...	221	334	94	12	249.3	2,316	1	8	66.98	179,050	1 19.65	214,237	
Macouj in .	20	11	9	3	1 398	532	1,104	41	223.2	14,489	4	29	52.14	1,369,919	84.39	1,156,103	
Madison ..	23	9	14	2	2 159	216	557	11	225.8	7,301	1	3	59.7	646,228	88.89	574,389	
Montg'm'y.	3	3	...	...	90	130	22	2	270.7	803	...	1	56.53	58,617	95.45	55,953	
Morgan ...	4	...	4	2	1 31	60	14	...	195	...	...	1	1 01.23	16,601	1 65.45	27,467	
Pike .....	8	...	8	8	...	4	11	...	10.8	...	...	...	1 25	135	2 00	270	
Richland ..	6	...	6	6	...	2	7	...	14.3	...	...	...	†	154	2 00	308	
Sangamon.	18	18	...	...	659	1,228	345	35	232.8	33,667	1	10	59.18	879,888	87.99	774,242	
Scott .....	11	1	10	7	34	61	10	3	11.2	379	1	...	1 12.5	20,022	1 50	30,035	
Shelby ....	8	...	8	4	19	44	10	...	171.9	...	...	...	1 25	18,023	1 75	31,542	
Totals ...	137	55	82	47	4 2,095	3,327	2,358	123	...	64,369	11	71	.....	3,716,464	.....	\$3,243,929	
Averages	...	...	...	...	...	...	...	214	...	...	...	...	\$0 58.33	.....	\$0 87.29	.....	

Whole number of openings reported in 1889, ninety-four.

Number of new mines or places opened during the year, forty-seven.

Number of mines exhausted or abandoned during the year, four.

Whole number of openings reported for 1890, one hundred and thirty seven.

\* Paid \$1.25 per day

† Paid \$1.50 to \$1.20 per day.

## FIFTH DISTRICT.---1890.

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MR. JOHN S. LORD,

*Secretary of the State Bureau of Labor Statistics, Springfield, Ill.*

SIR: In conformity with section twelve of the mining law, defining the duties of State Inspectors of mines, I herewith submit the seventh annual report of the Fifth district of the State of Illinois for the year ending June 30, 1890:

The usual tabular statements are given, of which the following is a brief summary:

Number of mines reported.....	193
Number of new mines opened during the year.....	41
Number of mines abandoned .....	21
Number of shipping mines.....	110
Number of local mines.....	83
Number of hand miners—summer.....	2,072
Number of hand miners—winter.....	2,977
Number of other employés .....	2,260
Number of boys.....	124
Number of employés at machine mines.....	1,173
Total number of employés in winter .....	6,534
Number of kegs of powder used.....	69,910
Number of tons of coal mined by hand.....	2,138,742
Number of tons of coal mined by machines.....	1,101,262
Total amount mined in the district.....	3,240,004
Aggregate value total product.....	\$2,628,582
Average value of coal per ton at the mine.....	\$0 81.13
Average district price for hand mining—summer.....	\$0 47.17
Average district price for hand mining—winter.....	\$0 53.08
Average number of working days.....	172.9
Number of fatal accidents.....	11
Number of non-fatal accidents.....	74
Number of tons of coal produced for each fatal accident.....	294,546
Number of tons of coal produced for each non-fatal accident....	43,783
Number of employés to each fatal accident.....	605
Number of employés to each non-fatal accident.....	89.9

Number of mining machines in use: Harrison, 54; Yoch, 6; Choa-teau, 9. Total, 69.

Below is given a comparison by counties of the product of coal, in tons, for 1889 and 1890:

	1889.	1890.	Increase. and Decrease.
Clinton.....	121,557	170,416	48,859
Gallatin.....	30,044	52,383	22,339
Jackson.....	477,474	580,521	103,047
Johnson.....	3,000	12,110	9,110
Marion.....	180,777	218,499	37,722
Perry.....	381,847	497,768	116,421
Randolph.....	98,202	134,699	36,297
Saline.....	35,496	45,845	10,349
St. Clair.....	1,198,100	1,332,978	134,878
Washington.....	36,220	25,160	11,060
Williamson.....	202,261	106,335	35,926

There has been an increase of coal mined in every county in the district except Washington and Williamson, which show a decrease. The whole increase of the product of 1890 over that of 1889 is 475,526 tons, or a gain of 17 per cent.

*Improvements.*—The Consolidated Coal Co. have completed the escapement shaft at the Breeze Mine, Clinton county, and put up a ten-foot fan which is run by belt from a 10x20-inch engine. The shaft is in two compartments with a cage in one of them for hoisting the men.

The Muddy Valley Mining & Manufacturing Co., of Muddy Valley, Jackson county, has sunk an escapement shaft and put up a fifteen-foot Blakely fan, run by a 10x20-inch Blakely engine, direct motion, for ventilating the east side of the workings. The west side of the mine is ventilated by a ten-foot fan. The escapement shaft is partitioned and equipped with cage and hoisting-engine in readiness for hoisting the men at any time.

D. P. Willis, of Murphysboro, has sunk a shaft on the fair grounds and equipped it with good machinery and buildings. The shaft is 140 feet deep, coal six and a half feet thick.

On March 4, the head gearing and chute belonging to the Gartside Coal Co.'s No. 1 shaft in Murphysboro was burned. It has since been rebuilt in a substantial manner, and the buildings covered with corrugated iron. The company has sunk a new shaft, called No. 3, about a quarter of a mile east of No. 1, and will connect them by entries. The new shaft is 145 feet deep and coal six feet thick. The engines are direct acting, 18x24 inches, five-foot drum; one Rand Compressor double engines 18x24 inches, eight two-flue boilers forty-two inches by twenty-eight feet. The buildings are covered with corrugated iron. The tower and chutes are not yet erected.

The Soto Coal & Mining Company, of Ava, has put in a double engine, 8x18-inch cylinder, and a two-flue boiler forty-two inches by eighteen feet.



G. W. Brown, of Pinckneyville, has sunk an escapement shaft.

The Excelsior Coal Mining Co., of DuQuoin, sunk a shaft west of town, depth seventy feet, coal six and a half feet thick. The company is building a switch to connect with the Illinois Central R. R.

The Greenwood Coal Co., of DuQuoin, is building a switch to connect their shaft with the Cairo Short Line R. R.

The Bailie Coal Co., of DuQuoin, will continue the switch one-fourth of a mile further to their mine.

The Superior Coal Co., of DuQuoin, has abandoned its old shaft and sunk another one, one mile northwest of DuQuoin, on the Cairo Short Line R. R. The shaft is sixty-two feet deep and the coal six feet thick, with black slate roof. The company is now putting in the machinery and boilers and erecting tower and buildings.

At the Cox mine and Barbour mine at Tamaroa, the fans have been rebuilt and repaired, and air-courses enlarged and connecting entry cleaned up.

The main shaft at the Coulterville mine has been repaired and part of it retimbered.

Joseph Taylor has put in a new fan at his mine near O'Fallon.

The Enterprise shaft at Renschler has been partially retimbered.

The Mosier Coal Co., of Turkey Hill, has put up new head-gearing and built a new fan.

The West End Coal Co., of Belleville, is now sinking an escapement shaft.

At the Bennett mine, Lebanon, the air courses have been retimbered and improved.

The new shaft of the Pittinger & Davis Mining & Manufacturing Company, of Centralia, is 437 feet deep, coal six feet four inches, with slate roof. It has hoisting engines 18x32 inches direct acting, and drum eight feet in diameter; also two cylinder boilers 42 inches by 28 feet, and one five-flue boiler 36 inches by 24 feet. The machinery is built on stone foundations, and the drum is equipped with steam brake and patent indicator. The buildings are constructed of brick and covered with corrugated iron. The tower is firm and strong, and two sets of chutes are built, one on each side of the shaft. The Murray self-dumping cage is used, and will dump coal on either side of the shaft. A large storage bin is also provided for stocking coal. Two small engines are arranged for running elevators, rolling screen, railroad cars and carrying away the slack. The mine is connected by switch with both the Illinois Central and the Jacksonville-Southeastern railroads.

Avery & Randle, Birkner, have sunk an escapement shaft and put up a new fan.

The Yock Coal & Mining Co., Belleville, has put up a new fan.

The Randle Coal Co., Freeburg, is sinking an escapement shaft.

At the Alma mine, Ridge Prairie, both shafts have been repaired, also the head gearing and return air-way have been repaired and enlarged.

The Walnut Valley Coal Co., Belleville, has put ladders in their escapement shaft.

C. Reinecke, No. 2, Belleville, has sunk a new escapement shaft.

The Johnson Coal Co. of Marissa, has put a fan on their escapement shaft.

George Grossman of Smithton, has made another outlet for air.

L. F. Bruggeman, of Belleville, has opened an entry to an adjoining shaft for an escape-way.

The Louisville & Nashville Coal Co., Belleville, has put up a new fan.

The Carterville Coal Co. has sunk a new shaft about a mile north of Carterville; depth of shaft 64 feet; coal nine feet in thickness, with good roof. The head gearing is constructed of heavy white oak timbers cut in full lengths. There is a double set of chutes, and the coal is dumped on either side of the shaft by the Murray self-dumping cages. Litchfield double engines, 16x36 direct motion, five feet drum, and six feet sheaves; 3 cylinder boilers 36 inches by 36 feet. The machinery rests on solid stone foundations, and the buildings are covered with corrugated iron. All the late improvements that experience has shown to be beneficial in preparing coal have been utilized. The switch has been extended from the old shaft, and sidings put in to all the chutes.

The St. Louis and Big Muddy Coal Co. has purchased over two thousand acres of coal land north of Carterville. They also hold several hundred acres under lease. The land is in one tract, commencing one and a half miles north of Carterville and extending to Blairsville, on the Big Muddy, a distance of three miles, and is over one and a quarter miles in width. The company is now sinking a shaft 10x22 feet in the clear, to be divided in three equal chambers. The depth to the coal is 90 feet, through solid rock and slate; the coal is nine feet thick. The shaft is strongly timbered. They are also building a railroad two miles in length, to connect with the Cairo Short-Line west of Carterville. Preparations are being made for buildings and machinery, which will be put in place after the entries are turned away from the shaft.

*Fatal Accidents.*—November 21, 1889, Wm. Fitzgerald, a miner, 65 years of age, in the employ of the Illinois Central Coal and Salt Co. at St. John's, was killed by a blast. He was married, leaves a widow, but no family.

November 26, 1889, Alvin Daly, a miner, 36 years of age, working at the Dupont mine, New Burnside, was killed by a fall of slate. He was married, and left a widow and one child.

December 19, 1889, Lewis Funk, single, a miner 27 years of age, working in the Glendale mine near Belleville, was killed by a fall of coal.

January 1, 1890, Daniel Selsar, a laborer, 22 years of age and single, working for the DuQuoin Coal Mining Co., DuQuoin, was killed by being crushed between the bumpers of two railroad cars, which he was placing in position under the chutes.

February 3, 1890, George M. Jones, a cager, working for the Odin Coal Co., Odin, was killed by being crushed between the cage and the side of the shaft. He leaves a widow but no family, and was 28 years of age.

March 11, 1890, Owen Owens, a miner working at the Vancourt mine, O'Fallon, was killed by a fall of coal while undermining a shot. He was 64 years of age, and left a widow and four children.

March 28, 1890, John Newberger, a miner, 44 years of age, working for the Maule Coal Co., Belleville, was killed by a fall of top-coal and clod. He leaves a widow and four children.

April 29, 1890, Frederick Haaffinger, single, a miner 31 years of age, working for the Union Coal Co., at Millstadt, was killed by a fall of coal.

May 16, 1890, Frank Lundake, a miner, 24 years of age, working for the Consolidated Coal Co. at Abbey mine No. 4, was killed by a blast that had failed to go off. He undertook to drill out the shot, when it exploded, causing his death. He leaves a widow.

May 16, 1890, Martin Ryan, single, a miner 62 years of age, working at the Enterprise shaft, Renschler, was fatally injured by being struck on the head by coal from a shot, causing his death two days afterwards.

June 13, 1890, Joseph Barber, single, a laborer 28 years of age, was killed by a fall of roof in the Excelsior Coal Mining Co.'s shaft, DuQuoin. He was not working in the mine, but went down to see the works when the accident occurred.

### *Fatal Casualties—Fifth District.*

Date.	Name.	Age.	Occupation.	Residence.	Married. Single.	Widows.	Children.	Cause of Accident.
1889.								
Nov. 21	Fitzgerald, Wm.	65	Miner.....	St. John .....	1 ..	1 ..		Flying coal from blast...
" 26	Daly, Alvin ....	36	Miner.....	New Burnside .....	1 ..	1 ..	1	Falling roof.....
Dec. 19	Funk, Lewis.....	22	Miner.....	Belleville.....	..	1 ..		Falling coal.....
1890.								
Jan. 1	Selsar, Daniel..	22	Laborer .....	DuQuoin.....	..	1 ..		Crushed betwe'n Ry. cars
Feb. 3	Jones, Geo. M..	28	Cager.....	Odin .....	1 ..	1 ..		Crushed between cage and side of shaft.....
Mch. 11	Owens, Owen..	64	Miner.....	O'Fallon .....	1 ..	1 ..	4	Falling coal.....
" 28	Newberger, Jno	44	Miner.....	Bellevue .....	1 ..	1 ..	4	Falling coal.....
Apr. 29	Haaffinger, Frd	31	Miner.....	Millstadt.....	..	1 ..		Falling coal.....
May 16	Lundake, Frank	24	Miner.....	Collinsville ..	1 ..	1 ..		Blast explos., premature
" 16	Ryan, Martin...	62	Miner.....	Renschler .....	..	1 ..		Coal from shot.....
June 13	Barber, Joseph.	28	Laborer .....	DuQuoin.....	..	1 ..		Falling roof.....
	Totals.....				6	5	6	9

10 were killed instantly.  
1 lived two days.

## RECAPITULATION.

Residence.	No.	Occupation.	No.	Cause.	No.	Per cent.
Belleville.....	2	Cagers.....	1	Blast explosion.....	2	18
Collinsville.....	1	Laborers.....	2	Cage.....	1	9
DuQuoin.....	2	Miners.....	8	Falling coal.....	5	46
Millstadt.....	1			Falling roof.....	2	18
New Burnside.....	1			Railroad cars.....	1	9
Odin.....	1					
O'Fallon.....	1					
Renschler.....	1					
St. John.....	1					
Totals.....	11		11		11	100.00

No of Men.	Name of company, firm or individual by which employed.
1	Consolidated Coal Company.....
1	DuQuoin Coal Co.....
1	Enterprise Coal Co.....
1	Excelsior Coal Co.....
1	Illinois Central Coal & Salt Co.....
1	John Dupont.....
1	Mauls Coal Co.....
1	Odin Coal Co.....
1	Millstadt Union Coal Co.....
1	Vancourt's Colliery.....
11	

## Non-Fatal Casualties—Fifth District.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Character of injury and cause of accident.	Time lost, days.
1889.								
July 5	Sweet, William.....	39	Murp'ysb'ro	1			1 Leg bruised by falling coal.....	42
" 13	Murray, Adam.....	30	Sparta.....	1			1 Body burned by gas explosion.....	35
" 16	Kearnes, Wm.....	19	Murp'ysb'ro	1			1 Collar-bone broken by pit-car.....	42
" 16	Darwell, James.....	36	DuQuoin.....	1			2 Leg broken by falling slate.....	120
" 30	Ballard, Geo.....	53	Murp'ysb'ro	1			4 Collar-bone broken by fall of coal.....	54
Aug. 2	Kennet, William.....		Trenton.....	1			1 Foot injured by falling coal.....	17
" 9	Rabbe, Henry.....	15	Lebanon.....	1			1 Breast injured with pick.....	
" 13	Begonia, Peter.....	23	Murp'ysb'ro	1			1 Back injured by falling slate.....	
" 13	Sartoriaz, Christona.....	31	Murp'ysb'ro	1			1 Hand injured by falling slate.....	
" 30	Hefter, Adam.....	62	Belleville.....	1			1 Body injured by falling slate.....	12
" 30	Lauff, Conrad.....	27	Wilderman.....	1			1 Shoulders injured by falling slate.....	12
Sep. 7	Taylor, Thomas.....	26	Murp'ysb'ro	1			1 Leg broken by falling slate.....	54
" 9	Erie, Henry.....	50	Ashley.....	1			1 Finger injured by falling coal.....	25
" 10	Travis, Moses.....	40	Belleville.....	1			1 Body injured by falling slate.....	13
" 18	Hagston, James.....	40	St. John.....	1			2 Body bruised by falling coal.....	22
" 19	Jones, Albert.....	47	Murp'ysb'ro	1			3 Head injured by coal falling down shaft.....	30
" 28	Gurst, Enoch.....	21	Belleville.....	1			1 Leg broken by falling slate.....	120
Oct. 1	Webber, John.....	65	Rice Prairie.....	1			1 Leg fractured by falling coal.....	
" 4	Caldwell, James.....	39	Sparta.....	1			7 Body burned by gas explosion.....	32
" 4	Nesbit, John.....	45	Sparta.....	1			4 Body burned by gas explosion.....	20
" 7	Becker, Charles.....	33	Belleville.....	1			1 Back sprained lifting pit-car.....	12
" 10	Bessola, James.....	30	St. John.....	1			1 Body injured by falling slate.....	52
" 11	Crombar, Napoleon.....	19	Murp'ysb'ro	1			1 Leg injured by falling slate.....	12
" 16	Jacques, Richard.....	16	Belleville.....	1			1 Body injured by falling slate.....	18
" 17	Zohm, Henry.....	25	Trenton.....	1			1 Body injured between pit-cars and cross-bar.....	10
" 25	Nold, Frank.....	32	Freeburg.....	1			1 Body burned by gas explosion.....	10
Nov. 2	Dicks, William.....	17	DuQuoin.....	1			1 Leg broken by falling slate.....	1
" 8	Elser, Jacob.....	45	Belleville.....	1			5 Body crushed by falling coal.....	90
" 12	Proffer, William.....	37	Kimnundy.....	1			1 Leg injured by falling coal.....	11
" 16	Patterson, Robert.....	30	Murp'ysb'ro	1			2 Back bruised by falling slate.....	24

*Non-Fatal Casualties—Concluded.*

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Character of injury and cause of accident.	Time lost, days.
1889.								
Nov. 16	Sullivan, John.....	35	Murp'ysb'ro	1	1	3	Back bruised by falling slate.....	24
" 25	Kiger, Nick.....	23	DuQuoin.....	1	1	1	Body bruised by falling slate.....	10
Dec. 3	Morris, George.....	38	Ashley.....	1	1	7	Shoulders injured by falling slate.....	20
" 9	Archibald, Covin.....	60	DuQuoin.....	1	1	4	Body bruised by falling slate.....	20
" 19	Rocherman, August.....	57	Belleville.....	1	1	1	Body bruised by falling slate.....	8
1890.								
Jan. 7	Chancey, Ed.....	32	Brydens.....	1	1	1	Leg injured by falling slate.....	18
" 19	Adams, William.....	30	Murp'ysb'ro	1	1	1	Hand cut by falling slate.....	6
Feb. 1	Dolph, Hiram.....	36	Bowlesville.....	1	1	1	Finger injured by falling slate.....	30
" 3	Norcuss, James.....	60	R'dg Prairie	1	1	1	Body injured premature explosion of blast.....	15
" 12	Davis, Hy.....	23	Breeze.....	1	1	1	Body burned by explosion of powder while filling cartridge.....	42
" 18	Basler, Henry.....	28	Belleville.....	1	1	1	Body burned by premature explosion of blast.....	15
" 19	Shilling, Peter.....	22	Belleville.....	1	1	1	Ankle injured by falling coal.....	12
" 21	Nevil, James.....	20	DuQuoin.....	1	1	1	Leg broken by falling slate.....	40
Mar. 1	Slatter, James.....	21	Belleville.....	1	1	4	Leg injured by falling coal.....	12
" 4	Wabler, William.....	35	Murp'ysb'ro	1	1	3	Body injured by fall of coal.....	14
" 4	Longenfelt, August.....	46	Centralia.....	1	1	8	Body burned by explosion of blast.....	30
" 8	Kerzer, Henry.....	45	Belleville.....	1	1	1	Ankle injured by fall of slate.....	12
" 10	Stanhouse, John.....	38	DuQuoin.....	1	1	1	Leg broken by falling slate.....	12
" 13	Miller, Wm.....	57	Belleville.....	1	1	1	Body injured by fall of coal.....	18
" 14	Carbon, Wm.....	21	Summerfield	1	1	1	Shoulder broken by pit-car.....	18
" 17	Oliver, Wm.....	32	Lenz.....	1	1	4	Shoulder injured by falling coal.....	7
" 26	Crawson, Fred.....	44	Kinmundy.....	1	1	1	Ankle injured by falling coal.....	24
" 29	Goevert, John.....	51	Breeze.....	1	1	6	Leg broken and arm injured by falling coal.....	90
" 29	Peters, George.....	50	Belleville.....	1	1	7	Head and shoulders injured by falling coal.....	36
Apr. 11	Scarborough, Benj.....	34	Bowlesville.....	1	1	1	Back injured by falling slate.....	6
" 11	Watzke, Wm.....	42	Bowlesville.....	1	1	5	Back and leg inj. by falling slate.....	12
" 14	Terry, Bavis.....	37	Diamond.....	1	1	2	Leg, collar bone and rib broken by falling slate.....	12
" 23	M. Currans, John.....	37	Murp'ysb'ro	1	1	3	Back injured by falling slate.....	18
" 26	Fritz, Henry.....	15	DuQuoin.....	1	1	1	Leg broken by falling slate.....	60
" 29	Rengeisen, Henry.....	17	Millstadt.....	1	1	1	Body crushed by falling coal.....	1
May 6	Crombar, Jos.....	28	Murp'ysb'ro	1	1	1	Leg injured by pit-cars.....	6
" 8	Ballard, Walter.....	22	Murp'ysb'ro	1	1	1	Leg injured by pit-cars.....	6
" 9	Carson, Geo.....	23	Murp'ysb'ro	1	1	1	Leg-injured by pit-cars.....	12
" 16	Cross, James.....	32	DuQuoin.....	1	1	1	Arm broken by falling coal.....	48
" 21	Silveter, Jos.....	23	Breeze.....	1	1	1	Body burned, premature explosion of powder.....	12
" 22	Cristy John.....	17	Murp'ysb'ro	1	1	1	Leg injured by pit-cars.....	12
" 23	Oberte, John.....	43	St. John.....	1	1	1	Body injured by falling coal.....	20
" 24	Terry, Isaac.....	45	Sunfield.....	1	1	1	Leg broken by falling slate.....	12
June 2	Woodside, H.....	45	Sunfield.....	1	1	7	Shoulder broken by falling slate.....	12
" 3	Tark, Wm.....	18	Murp'ysb'ro	1	1	1	Arm crushed by screen shaker.....	3
" 20	Rogers, Chas.....	30	Murp'ysb'ro	1	1	1	Head cut by falling slate.....	12
" 20	Miller, Geo.....	27	R'dg Prairie	1	1	3	Body burned, premature discharge of shot.....	6
" 24	Rackley, Wm.....	25	Murp'ysb'ro	1	1	1	Back bruised by pit-cars.....	6
" 25	Duncan, Fred.....	18	Murp'ysb'ro	1	1	1	Head cut by falling slate.....	12
				43	31	102		4

\* Compelled to quit mining.

† Not in employ of company.

: Not yet recovered, unable to work.

§ Amputated.

¶ An average of 26.7 days to each man.

Of the 10 men who had legs broken, 3 have not yet (July 1) recovered: 1 was not in the employ of the company.

The 6 men recovered lost an average of 81 days, 2 of these men had 12 persons dependent on them for subsistence and lost an average of 105 days each. Of the 4 men not yet recovered 2 have 6 persons dependent on them for subsistence.

## RECAPITULATION OF NON-FATAL CASUALTIES.

Residence.	No. of men.	Occupation.	No. of men.	Causes.	No. of men.	Per cent.
Ashley.....	2	Cager.....	1	Falling coal.....	19	25.6
Belleville.....	13	Drivers.....	11	Falling down shaft.....	1	1.4
Bryden.....	1	Laborers.....	2	Falling slate.....	33	44.6
Bowlesville.....	3	Loaders.....	9	Gas explosion.....	4	5.4
Breeze.....	3	Miners.....	51	Pick.....	1	1.4
Centralia.....	1			Powder explosion.....	6	8.1
Diamond.....	1			Pit-cars.....	9	12.1
DuQuoin.....	8			Screen shaker.....	1	1.4
Freeburg.....	1					
Kinmundy.....	2					
Lebanon.....	1					
Lenz.....	1					
Mill-tadt.....	1					
Muddy Valley.....	1					
Murphysboro.....	20					
Ridge Prairie.....	3					
Sparta.....	3					
St. Johns.....	3					
Summerfield.....	1					
Sunfield.....	2					
Trenton.....	2					
Wilderman.....	1					
	74		74		74	100.00

Character of injury.	No. of men.	Per cent.	Occupation.	Num- ber.	Name of company, firm or in- dividual by which employed.	Num- ber.
Ankles injured.....	3	4.05	Cager.....	1	St. Louis Ore & Steel Company	15
Arms broken.....	2	2.70	Drivers.....	11	Consolidated Coal Company....	9
Backs injured.....	8	10.82	Laborers.....	2	Eden Company.....	3
Bodies injured.....	24	32.43	Loaders.....	9	Gartside Coal Company.....	3
Breast injured.....	1	1.35	Miners.....	51	Wilderman.....	3
Collar-bones broken..	2	2.70			Oak Hill Company.....	3
Fingers injured.....	2	2.70			Paradise.....	3
Feet injured.....	1	1.35			Jupiter Mining Company.....	3
Hand injured.....	2	2.70			Bowlesville Coal Company.....	3
Heads injured.....	4	5.41			DuQuoin Coal Mining Company	3
Legs broken.....	*10	13.52			Morris Brothers.....	2
Legs injured.....	10	13.52			Kinmundy Coal Min. & Mfg. Co.	2
Shoulders broken.....	2	2.70			Harrison Coal Company.....	2
Shoulders injured.....	3	4.05			John Kloess.....	2
					Sunfield Coal & Coke Company	2
					Greenwood Coal Company.....	1
					Bennett Mine.....	1
					Crown Coal Company.....	2
					Freeburg Coal Company.....	1
					Electric Light Coal Company..	1
					Bryden Coal Company.....	1
					Bruggeman & Hortman.....	1
					Muddy Valley Min. & Mfg. Co.	1
					Centralia Mining & Mfg. Co.	1
					Humboldt Mining Company....	1
					St. George Coal Company.....	1
					Bessemer Coal Company.....	1
					Perry Coal Company.....	1
					Enterprise Coal Company.....	1
					Union Coal Company.....	1
	74	100.00		74		74

\* One had, in addition, collar-bone and ribs broken and one had an arm injured.

The following are the statistical tables for each county, giving detailed information of each mine in the district and a recapitulation by counties.

Respectfully submitted,

ELISHA BEADLE,

Inspector 5th District, Ashley.

*Clinton County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during the year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
C. C. C., St. L., Mo. Trenton Mine ..	Trenton ..	....	....	135	....	254	673	..	2	*	*	81,495	\$1 00
Breeze Mine.....	Breeze ..	....	....	49	....	231	1764	..	3	†	†	54,018	82
Breeze F. C. & M. C.	.....	35	65	6	....	250	1200	..	..	\$0 43.75	\$0 43.75	34,903	87.5
Totals (3 mines).	.....	35	65	190	....	....	3637	..	5	.....	.....	†17,416	.....
Averages .....	.....	.....	.....	.....	.....	245	.....	..	..	\$0 43.75	\$0 43.75	.....	\$0 91.73

\* Machine mine.

† 81,495 tons cut by machines and 54,018 by air-drills.

‡ Coal cut by air-drills.

*Gallatin County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during the year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Equality Coal Co ..	Equality ..	30	45	12	....	210	900	..	..	\$0 62.5	\$0 62.5	44,800	\$1 00
P. Brightner.....*	.....	3	4	1	....	70	20	..	..	55	55	600	1 00
Jesse Purcell.....*	.....	..	2	..	....	50	6	..	..	62.5	62.5	320	1 00
Bowlesville C. Co...	Sh'wne't'n	42	21	6	....	135	215	..	3	75	75	5,783	1 10
David Abraham.....*	.....	..	3	..	....	52	6	..	..	.....	81.25	260	1 25
Andrew Reid.....*	Saline M's.	..	3	..	....	140	.....	..	..	.....	75	200	1 25
John S. Brinkley.....*	L'vri'gt'n.	..	2	..	....	40	.....	..	..	.....	87.5	200	1 25
G. W. Most.....*	N. Haven.	2	..	..	....	40	.....	..	..	.....	.....	220	2 00
Totals (8 mines).	.....	47	80	19	....	.....	1154	..	3	.....	.....	52,383	.....
Averages .....	.....	.....	.....	.....	.....	92.1	.....	..	..	\$0 63.82	\$0 64.14	.....	\$1 01.83

\* New mine

*Hardin County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Benjamin Hall*.....	Sparks H'l	....	1	....	....	30	1	..	....	\$1 25	40	\$1 50	
Totals (1 mine) ....	.....	....	1	....	....	....	1	..	....	....	40	.....	
Averages .....	.....	....	....	....	....	30	....	....	....	\$1 25	.....	\$1 50	

\* New mine.

*Jackson County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employed.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
St. L. Ore & Steel Co	M'p'ysb'ro	...	...	75	4	175	386	2	...	...	...	34,715	\$0 90
" " No. 4	"	...	...	95	7	240	884	9	...	...	...	76,517	90
" " No. 5	"	...	...	200	11	380	2532	6	...	...	...	232,731	90
Gartside C. Co. No. 1	"	16	25	7	1	310	...	...	\$0 33	\$0 33	...	14,750	1 12½
" " No. 4	"	...	...	70	2	254	528	3	...	...	...	58,300	1 12½
Bryden C. & C. Co. No. 1	"	25	45	22	2	156	475	1	48	48	...	26,875	90
" " No. 2*	"	12	12	4	1	105	...	...	...	...	...	10,545	90
M'dy Val. M. & M. Co	Mud'y Val.	...	...	90	4	250	2700	1	...	...	...	87,931	90
D. P. Willis*	M'p'psb'ro	6	12	4	...	259	5	...	58	58	...	3,084	1 37½
E. E. Poole	"	2	5	1	1	120	...	...	1 00	1 00	...	718	1 50
Mt. Pleasant*	"	3	3	2	...	160	18	...	50	50	...	360	1 00
Osborne Bros	"	...	...	1	...	58	6	...	50	50	...	125	1 00
Big M'dy C. & C. Co.	DeSoto	30	36	20	2	181	455	...	50	56½	...	18,898	85
Soto C. & M. Co.	Ava	25	25	9	2	200	400	...	44	48	...	10,780	85
Ditzler & Marke	Sato	1	2	1	...	185	45	...	65	65	...	1,700	1 00
C. A. Ray	C'r'b'ndale.	2	4	...	...	200	57	...	75	75	...	1,364	1 12
Daniel Dawson	C'p'b'ls H'l	1	1	...	...	169	2	...	1 25	1 25	...	169	1 50
Aaron Koen*	"	1	1	...	...	25	...	...	1 25	1 25	...	25	1 50
Wm. Campbell	Grubb	1	2	...	...	84	...	...	56½	56½	...	419	1 00
Ashby Crane	"	1	2	...	...	110	8	...	50	50	...	320	1 00
George Wright	B'sk'y'dell.	2	2	...	...	30	...	...	1 00	1 00	...	50	1 50
Monroe Queen*	"	1	1	...	...	30	...	...	1 00	1 00	...	40	1 50
F. S. Cliburn*	Makanda	1	1	...	...	22	...	...	1 00	1 00	...	25	1 50
Thomas Cook*	C'r'b'ndale.	2	2	...	...	20	...	...	50	50	...	80	1 00
Totals (24 mines) ..	.....	131	183	601	37	.....	8501	22	.....	.....	.....	458,521	.....
Averages	.....	.....	.....	.....	.....	151.8	...	...	\$0 47.16	\$0 49.19	.....	.....	\$0 93

\* New mine.

† 490,194 tons mined by machinery.



*Jefferson County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Sam'l Burnett*.....	Opdyke...	2	4	...	...	70	...	...	...	...	...	540	\$1 50
Wm. Scribner*.....	" .....	3	3	...	...	...	...	...	...	...	...	600	1 50
George Shelton*.....	" .....	3	3	...	...	...	...	...	...	...	...	520	1 50
Thos. D. McGinnis*.....	Dahlgren.	2	2	...	...	...	...	...	...	...	...	400	1 50
Florida Birkhead*.....	Moore's P.	1	1	...	...	30	...	...	...	...	...	40	1 50
Totals (5 mines).....	.....	11	13	...	...	...	...	...	...	...	...	2,100	.....
Averages .....	.....	...	...	...	...	68	...	...	...	...	...	.....	\$1 50

\*New mine.

*Hamilton County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine .....
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
John Harper* .....	Flint .....	2	2	...	...	70	...	...	...	.....	.....	450	\$1 50

\*New mine.

*Franklin County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
William King*.....	Ewing Col.	4	4	...	...	150	...	...	...	.....	.....	700	\$1 50

\*New mine.

## Johnson County—Fifth District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Jno. Dupont.....	N.Brns'de	30	30	10	....	125	210	1	..	\$0 45	\$0 45	12,000	\$0 95
J. M. Watkins*.....	Tun'el Hill	2	....	....	....	45	....	....	....	....	....	40	30 00
Henry May*.....	"	2	....	....	....	50	....	....	....	....	....	50	30 00
D. J. Watkins*.....	"	1	....	....	....	30	....	....	....	....	....	20	30 00
Totals (4 mines) ..	.....	35	30	10	....	....	210	1	..	....	....	12,110	.....
Averages .....	.....	....	....	....	....	62.5	....	....	....	\$0 45	\$0 45	.....	\$0 95.95

\*New mine.

## Marion County—Fifth District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Centralia M. & M. C.	Centralia..	75	115	53	4	290	2,305	..	1	\$0 56¼	\$0 56¼	90,649	\$0 90
Sandoval C. & M. C.	Sandoval..	60	60	40	3	235	1,688	..	..	50	56¼	59,771	80
Odin Coal Co.....	Odin.....	70	70	20	....	300	1,500	1	..	50	50	46,276	80
K'n'm'd C. M. & M. C.	Kinmu'dy	40	50	8	2	204	....	..	2	60	70	20,400	90
Robert Winning.	Salem.....	4	6	4	2	175	60	..	..	60	60	1,400	1 25
Totals (5 mines).	.....	249	301	125	11	....	5,553	1	3	....	....	218,499	.....
Averages .....	.....	....	....	....	....	241	....	....	....	\$0 53.59	\$0 56.23	.....	\$0 84.58

*Perry County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employed.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Horn's Coal Co....	DuQuoin..	10	55	30	2	200	700	...	...	\$0 50	\$0 62½	15,000	\$0 85
Superior C. M. Co.	"	20	40	8	1	200	450	50	50	50	62½	10,965	1 00
Excelsior C. M. Co.	"	14	14	14	1	52	62	1	1	50	56	3,500	92
B. Baile.....	"	7	9	4	1	200	120	50	50	62½	62½	4,280	75
Greenwood C. Co..	"	5	15	2	...	210	125	1	1	50	62½	6,000	75
Perry Coal Min. Co.	"	35	40	25	3	214	884	2	2	47½	47½	24,571	85
Jupiter Mining Co.	"	70	110	35	3	228	1,826	3	3	50	62½	47,294	95
Enterprise C. & C. Co.	"	60	75	40	4	190	1,252	2	2	50	62½	45,966	86
DuQuoin C. Min. Co.	"	125	175	75	...	250	3,000	1	2	50	62½	150,000	90
Ill. Cent. C. & S. Co.	St. John..	100	150	60	11	281	2,097	1	2	50	62½	111,481	90
Sun C. & C. Co....	Sunfield..	49	53	20	2	180	900	...	...	48	48	27,021	85
G. W. Brown.....	Pek'y'yle..	15	15	6	...	180	404	...	...	43¾	43¾	5,460	70
Faust & Turner....	"	2	2	1	...	200	30	...	...	50	50	900	1 00
Cox mine.....	Tamaroa..	20	27	7	...	20	520	...	...	45	45	14,600	85
Barbour mine.....	"	18	26	6	...	200	540	...	...	45	45	14,100	85
Barwell mine.....	Cutler.....	10	15	6	...	140	525	...	...	+	+	16,260	65
Maynard mine*....	"	1	1	2	...	180	...	...	...	55	55	380	1 12½
Totals (17 mines) ..		561	822	341	34	...	13425	3 14	...	\$0 49.39	\$0 59.58	497,768	...
Averages .....		...	...	...	...	194.4	...	...	...	...	...	...	\$0 88.07

\*New mine.

†Miners paid by the day.

*Randolph County—Fifth District—1890.*

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYEES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employed.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Valley & Gulf C. Co.	Sparta ....	20	30	10	2	197	842	3	+	+	+	28,623	\$0 57½
Rosbor'gh C. & Mfg. Co.	"	10	15	5	...	170	350	...	...	\$0 37½	\$0 37½	10,000	60
D. B. Boyd .....	"	15	25	6	...	160	400	...	...	37½	37½	12,000	70
Geo. Gerlark & Co..	"	4	6	1	...	175	...	...	...	50	50	1,777	1 12½
Geo. Stanway .....	Bair .....	2	2	1	...	113	16	...	...	68¾	68¾	499	87½
Wm. McDonald .....	"	1	3	1	...	104	60	...	...	56	56	480	1 00
H. H. Rosborough..	Perry.....	2	30	5	1	190	600	...	...	50	56¼	24,000	75
W. Goalby & S'n. I. & 2	"	25	40	14	...	196	846	...	...	37½	50	28,800	62½
Barnard M. & Tran. C.	"	12	16	5	...	200	200	...	...	43¾	50	7,468	65
Little Muddy C. & M. C.	"	12	20	3	...	216	240	...	...	37½	43¾	6,054	65
J. M. Jones .....	Coultr'ville	21	21	4	1	128	92	...	...	+	+	9,281	66
R. A. Torrens .....	Tilden .....	6	6	4	...	175	200	...	...	37½	37½	5,617	55
Julius Smith*.....	Steelville..	...	3	...	...	30	2	...	...	+	+	100	1 00
Totals (14 mines) ..		148	217	57	4	...	3,848	3	...	\$0 41.67	\$0 47.82	134,699	...
Averages .....		...	...	...	...	158	...	...	...	...	...	...	\$0 65.24

\*New mine.

†Miners paid by the day.

## Saline County—Fifth District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
J. H. Musgrave.....	Eldorado.	5	15	2	....	180	100	..	..	\$0 62½	\$0 62½	9,500	\$1 00
Davenport & Co.....	Harr'sb'rg	20	30	4	....	250	140	..	..	62½	75	10,000	80
Howell & McCrea.....	..	12	15	4	....	178	175	..	..	62½	75	8,538	90
Heenan & Co.....	..	1	21	1	....	50	15	..	..	62½	75	2,007	90
Jacob Ingram.....	..	..	2	..	....	90	3	..	..	..	75	200	1 25
Evans I. Ingram.....	..	..	4	..	....	75	18	..	..	..	75	600	1 25
Irwin & Pierson.....	..	1	3	..	....	66	3	..	..	62½	62½	160	1 25
J. B. Strickland.....	..	..	3	..	....	90	10	..	..	..	75	800	1 25
L. F. Sheffield.....	..	..	2	..	....	8	1	..	..	..	75	50	1 25
Allsopp & Co.....	New C'sle	20	24	7	4	290	350	..	..	65	75	11,900	90
Andrew Cogdell.....	..	..	1	1	..	52	2	..	..	..	75	160	1 25
H. P. Sittig.....	Stonefort..	..	1	1	1	40	..	..	..	..	75	80	1 25
F. F. Johnson.....	..	..	1	1	..	45	1	..	..	..	..	75	1 00
James Slaten.....	Harr'sb'rg	..	1	1	..	40	2	..	..	..	50	85	1 00
John Curtner.....	S America	..	2	..	..	80	..	..	..	..	..	370	62½
Phillip Speas.....	..	..	3	..	..	90	..	..	..	..	..	400	75
W. W. Harris.....	..	..	3	..	..	47	..	..	..	..	..	320	75
W. V. Rush.....	..	..	4	..	..	52	..	..	..	..	..	600	75
Totals (18 mines)	.....	59	135	20	4	..	820	..	..	..	..	45,845	.....
Averages .....	.....	..	..	..	..	95.7	..	..	..	\$0 63.20	\$0 72.25	.....	\$0 90.84

\*New mine.

## St. Clair County—Fifth District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Electric L. & C. C.	Belleville.	5	9	2	....	289	56	..	1	\$0 45	\$0 50	6,780	\$1 00
Yock C. & M. Co.	..	16	23	5	..	259	345	..	3	30	32	17,888	55
Charles Hortman.....	..	25	25	4	2	275	..	..	..	37½	43	18,390	50
Oakland Coal Co.	..	18	25	3	..	197	289	..	..	43¾	50	21,132	75
John Kloop.....	..	40	80	6	..	225	433	..	2	37½	43	46,000	75
Mawle Coal Co.....	..	75	75	10	3	300	72	1	..	50	50	45,000	62½
Mawle & Sons.....	..	20	20	4	..	200	36	..	..	37½	37½	7,000	62½
George Renther.....	..	4	6	2	..	250	12	..	..	50	50	3,360	1 00
John Harst.....	..	4	5	..	..	245	24	..	..	45	45	3,000	1 00
James Slnert.....	Cent'rville	2	3	..	..	50	1	..	..	50	50	400	1 00
Avery & Randle.....	Birkner..	14	18	..	2	250	375	..	..	37½	.....	13,744	55
Joseph Taylor.....	O'Fallon..	15	20	5	..	193	280	..	..	40	40	13,940	62½
Darrow.....	..	8	16	3	..	300	200	..	..	50	50	6,020	85
Vanwurt.....	..	16	25	6	..	200	180	1	..	50	50	11,520	75
Ruby.....	Caseyville	15	35	10	..	240	780	..	..	50	50	19,200	62½
Robert Brimann.....	..	1	1	..	..	300	7	..	..	125	125	320	1 25
Enterprise.....	Rentchler	12	23	5	..	265	400	1	..	50	56¾	18,500	75
Turkey Hill.....	..	6	24	8	1	140	250	..	..	37½	43¾	2,500	55
A. Lloyd & Son.....	..	5	10	3	..	140	391	..	..	37½	43¾	6,553	62½
Con. Strawbinger.....	French Vil	1	2	..	..	155	6	..	..	50	50	480	1 00
J. Charleton No. 1	..	..	1	..	..	107	4	..	..	43¾	50	200	1 00
.. No. 2	..	..	2	1	..	107	9	..	..	43¾	50	440	1 00

## St. Clair County—Concluded.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES—ETC.										PRODUCTS AND VALUES.	
		Miners employed		All other employes.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Lawrence Ferber	French Vill	....	1	....	....	30	1	....	....	\$0 50	40	\$1 00	
Randle Coal Co.	Freeburg..	8	24	15	....	265	360	....	....	\$0 31½	37½	11,520	50
Freeburg Coal Co	Freeburg..	8	14	4	....	280	280	1	....	33	40	9,100	57½
McKinley & Co.	Summerfd	20	30	4	....	300	247	1	....	50	56½	10,520	1 50
George Grosman.	mithton..	1	1	....	....	300	....	....	....	*	*	716	1 00
Benj. Johnson....	Lenzburg.	2	2	....	....	185	....	....	....	50	50	680	1 00
David Haensel....	Lenzburg.	7	17	2	....	265	220	....	....	40	40	7,786	75
Eastern Mine....	Lenzburg.	4	14	2	....	155	138	....	....	37½	37½	9,590	50
James Beatty....	Mascouth.	5	5	1	....	250	90	....	....	50	50	9,350	1 12½
Dan. Muskopf....	Millstadt..	2	4	....	....	150	....	....	....	62½	62½	1,204	1 25
St. L. & H. P. C. C.	Millstadt..	6	....	2	....	20	5	....	....	37½	43½	861	50
Consol. Coal Co.	Collinsv'le	....	....	98	....	277	2,141	1	....	....	....	1122,682	82
Abbey No. 4....	Ridge P.	....	....	92	....	252	2,914	1	....	....	....	1121,532	82
Mentor.....	Belleville..	....	....	45	....	173	452	....	....	....	....	138,584	82
Knecht.....	Belleville..	....	....	46	....	286	645	1	....	....	....	171,864	82
Schureman....	Belleville..	....	....	51	....	202	379	....	....	....	....	145,406	82
Gartside No. 4..	Belleville..	....	....	60	....	250	1,065	1	....	....	....	166,000	65½
Glendale.....	Belleville..	....	....	62	....	251	2,374	2	....	....	....	177,644	55
F. & H. Mining Co	Belleville..	....	....	84	....	240	2,487	....	....	....	....	176,853	82
Consol. Coal Co.	Belleville..	....	....	48	....	233	2,196	....	....	....	....	168,858	75
Richland.....	Marissa...	....	....	30	1	234	1,023	....	....	....	....	131,868	10
White Oak.....	Marissa...	....	....	10	....	220	500	....	....	....	....	10,740	60
D. Zihlsdorf....	Marissa...	6	6	....	....	....	....	....	....	....	....	....	....
New Enterprise..	Marissa...	....	....	....	....	....	....	....	....	....	....	....	....
Consol. Coal Co.	Marissa...	....	....	....	....	....	....	....	....	....	....	....	....
Alma.....	Ridge P.	8	15	3	....	194	416	2	....	*	*	24,145	82
Dutch Hollow..	Belleville..	9	9	2	....	168	140	....	....	50	50	6,748	32
Concordia.....	Belleville..	16	22	3	....	124	1	....	....	50	50	8,958	32
Northwestern C.C	Belleville..	12	12	3	....	150	120	....	....	37½	37½	7,200	70
Pittsburg C. Co.	Belleville..	10	10	3	....	200	300	....	....	32	32	10,000	50
Green Mount....	Belleville..	8	8	2	1	48	90	....	....	37½	37½	1,481	68½
Enterprise.....	Belleville..	4	6	3	....	260	150	....	....	43½	43½	4,875	1 00
West End C. Co.	Belleville..	10	10	1	2	235	50	....	....	37½	43½	6,006	55
St. George C. M. C.	Belleville..	6	6	1	....	20	....	1	....	43½	43½	280	62½
Crown C. Co. No.1	Belleville..	30	50	2	2	300	500	....	....	37½	50	29,640	75
Crown C. Co. No.2	Belleville..	50	50	5	3	270	800	2	....	37½	50	14,820	75
Bebel Mine.....	Belleville..	2	2	2	....	180	8	....	....	50	50	1,440	1 00
Abend No. 1....	Belleville..	2	4	1	....	200	40	....	....	43½	43½	1,800	1 00
Abend No. 2....	Belleville..	5	....	1	....	100	10	....	....	40	40	1,600	55
Reinecke No. 2..	Belleville..	16	20	5	....	180	140	....	....	37½	43½	21,210	62
L. & N. C. M. Co.	Belleville..	10	10	2	....	227	210	1	....	25	25	9,100	50
Humboldt Min. C.	Belleville..	6	15	4	....	250	175	1	....	37½	43½	11,660	55
F. J. Bruggeman.	Belleville..	7	11	4	....	220	25	1	....	50	50	4,245	1 00
Walnut Val. C. Co.	Belleville..	4	4	20	....	265	861	....	....	*	*	26,856	61
F. Murphy No. 1.	Belleville..	2	4	1	....	175	....	....	....	50	50	2,800	75
F. Murphy No. 2.	Belleville..	3	6	1	....	175	....	....	....	50	50	3,200	75
Highland Coal Co.	Belleville..	18	25	3	....	115	55	....	....	37½	43½	9,400	72
Millst'dt C. & M. Co	Millstadt..	12	25	4	....	227	30	....	....	37½	43½	14,864	65
Millstadt U. C. Co	Millstadt..	15	35	6	1	260	40	1	....	37½	43	15,753	70
Harris Bros....	Birkner...	10	20	5	....	250	250	....	....	*	*	12,000	62½
Bennett.....	Lebanon...	5	8	4	....	200	120	1	....	43½	43½	6,864	87½
Union.....	Caseyville	8	12	4	....	200	225	....	....	37½	50	7,429	60
Christ C. Macke..	Belleville..	1	3	2	1	....	15	....	....	37½	50	800	1 25
Johnson Coal Co.	Marissa...	4	6	19	....	223	800	....	....	*	*	20,000	52½
Pittsburg Min. Co.	Belleville..	6	6	2	....	200	75	....	....	45	45	5,000	62
Wm. Maddox....	Freeburg..	2	2	....	....	90	....	....	....	*	*	150	....
Totals (75 mines)	.....	672	976	849	19	27286	6 22	....	....	....	....	11,332,978	....
Averages.....	.....	....	....	....	....	198.4	....	....	....	\$0 40.91	\$0 45 33	....	\$0 72.73

\* Miners paid by the day.

† 466,017 tons mined by machines.

‡ Machine mine.

§ Mined by air-drills.

¶ Mined by hand-drills.

## Washington County—Fifth District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.								PRODUCTS AND VALUES.			
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during the year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Kuhn & Schwind....	Dubois ...	20	20	10	....	240	600	..	..	\$0 45	\$0 45	15,000	\$0 85
Camm'n & Morris Bro	Nashville..	20	30	4	....	220	31	..	..	50	50	8,300	75
F. W. Stricker.....	Okawville	2	2	1	....	225	45	..	..	62½	62½	1,000	1 62½
Morris Bro .....	Ashley....	4	7	1	....	225	42	..	2	70	70	860	1 37½
Totals (4 mines) ..		46	59	16	....	718	..	2	..			25,160	.....
Averages .....					....	237.5	....	..	..	\$0 48.20	\$0 48.20	.....	\$0 86.57

## Williamson County—Fifth District—1890.

Name of firm, company or person operating the mine.	Town or postoffice nearest the mine.	EMPLOYES, WORKING TIME, WAGES, ETC.										PRODUCTS AND VALUES.	
		Miners employed.		All other employees.	Boys employed under ground.	Days worked during year.	Kegs of powder used during year.	Casualties.		Paid per ton for mining.		Total tons of coal mined.	Av. value per ton at the mine.
		Summer.	Winter.					Killed.	Injured.	Summer.	Winter.		
Crystal Plate G. C.	Fredonia .	16	16	100	5	197	1,067	..	..	..	..	163,556	\$0 75
Wald'n & Sprague.		1	4	..	..	150	12	..	..	\$0 50	\$0 50	600	1 00
Carterville Coal C.	Carterville	42	42	41	6	283	3,350	..	..	..	..	90,334	65
J. M. Walker .....	"	2	2	..	..	60	8	..	..	..	..	200	1 00
John A. Young .....	"	2	4	4	2	225	25	..	..	..	..	2,112	1 00
Geo. McMath .....	"	3	3	4	1	305	240	..	..	50	50	7,369	90
J. B. & R. L. Hudgins .....	Pulley's M	2	2	1	..	240	30	..	..	65	65	675	1 25
Wm. Tippet .....	Marion ...	1	1	2	1	200	5	..	..	37½	50	120	1 00
W. P. Ablen .....	"	2	2	..	..	64	5	..	..	37½	50	319	1 00
Copley & Co. ....	Cr'b Ore'd	2	2	..	..	68	1	..	..	75	75	100	1 00
E. E. Ensinger .....	"	3	3	..	..	75	10	..	..	75	75	350	1 00
Edwards Bro. ....	"	4	4	..	..	90	7	..	..	75	75	400	1 00
W. M. Reid .....	Marion ...	2	2	..	..	65	1	..	..	\$	\$	200	1 00
Total (13 mines).		76	93	152	15	4,757	..	..	..			166,335	.....
Averages .....						155	.....	..	..	\$0 52.66	\$0 53.16	.....	\$0 71.09

\* New mines.

† 63,556 tons mined by machines.

‡ Machine mine.

§ Miners paid by the day.

## Recapitulation by Counties—Fifth District—1890.

COUNTIES.	MINES.					MINERS.							PRICES AND PRODUCTS.				
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	No. of miners and other employes.				Average number of days worked.	Number of kegs of powder used.	Killed.	Injured.	Average price paid per ton for hand-mining.	Total tons of coal mined.	Average value per ton at the mine.	Aggregate value of total product.
						Miners, summer.	Miners, winter.	Other employes.	Boys underground.								
Clinton....	3	3	...	...	...	35	65	190	...	245	3,636	...	5	\$0 43.75	170,416	\$0 91.7	\$156,330
Franklin ..	1	...	1	1	...	...	...	4	...	150	...	...	...	...	700	1 50	1,050
Gallatin ...	8	2	6	5	...	47	80	19	...	92.5	1,154	...	3	64.04	52,383	1 01.83	53,346
Hardin....	1	...	1	1	...	...	1	...	...	30	1	...	1	25	40	1 50	60
Hamilton..	1	...	1	1	...	2	2	...	...	70	...	...	...	...	450	1 50	675
Jackson ...	24	10	14	8	1	131	183	601	37	151.8	8,501	...	22	48.51	586,521	93	540,102
Jefferson..	5	...	5	5	...	11	13	...	...	68	...	...	...	...	2,100	1 50	3,150
Johnson...	4	1	3	3	...	35	30	10	...	62.5	210	1	...	45	12,110	95.95	11,620
Marion ....	5	5	...	...	...	249	301	125	11	241	5,553	1	3	55.4	218,499	84.58	184,801
Perry.....	17	13	4	2	5	561	822	341	34	194.4	13,425	3	14	56.19	497,768	88.07	438,396
Randolph..	14	10	4	1	3	148	217	57	4	158	3,848	...	3	45.77	134,699	65.24	87,878
Saline .....	18	5	13	9	...	59	135	20	4	95.7	820	...	...	69.30	45,845	90.84	41,644
St. Clair....	75	56	19	...	11	672	976	849	19	198.4	27,286	6	22	43.78	1,332,978	72.73	969,485
Washi'gton	4	2	2	...	...	46	59	16	...	227.5	718	...	2	48.20	25,160	86.57	21,782
Williamson	13	3	10	5	1	76	93	152	15	155.5	4,757	...	...	53.00	166,335	71.10	118,261
Totals....	193	110	83	41	21	2,072	2,977	2,384	124	...	69,910	11	74	...	3,240,004	...	\$2,628,532
Averages	...	...	...	...	...	...	...	...	...	172.9	...	...	...	\$0 51.08	...	\$0 81.13	...

In taking the average days worked in the district, the counties of Franklin, Hardin Hamilton and Jefferson have been omitted.

Whole number of openings reported in 1889, one hundred and seventy-four.

Number of new mines or places opened during the year, forty-one.

Number of mines exhausted or abandoned during the year, twenty.

Whole number of openings reported for 1890, one hundred and ninety-three.





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# APPENDIX.

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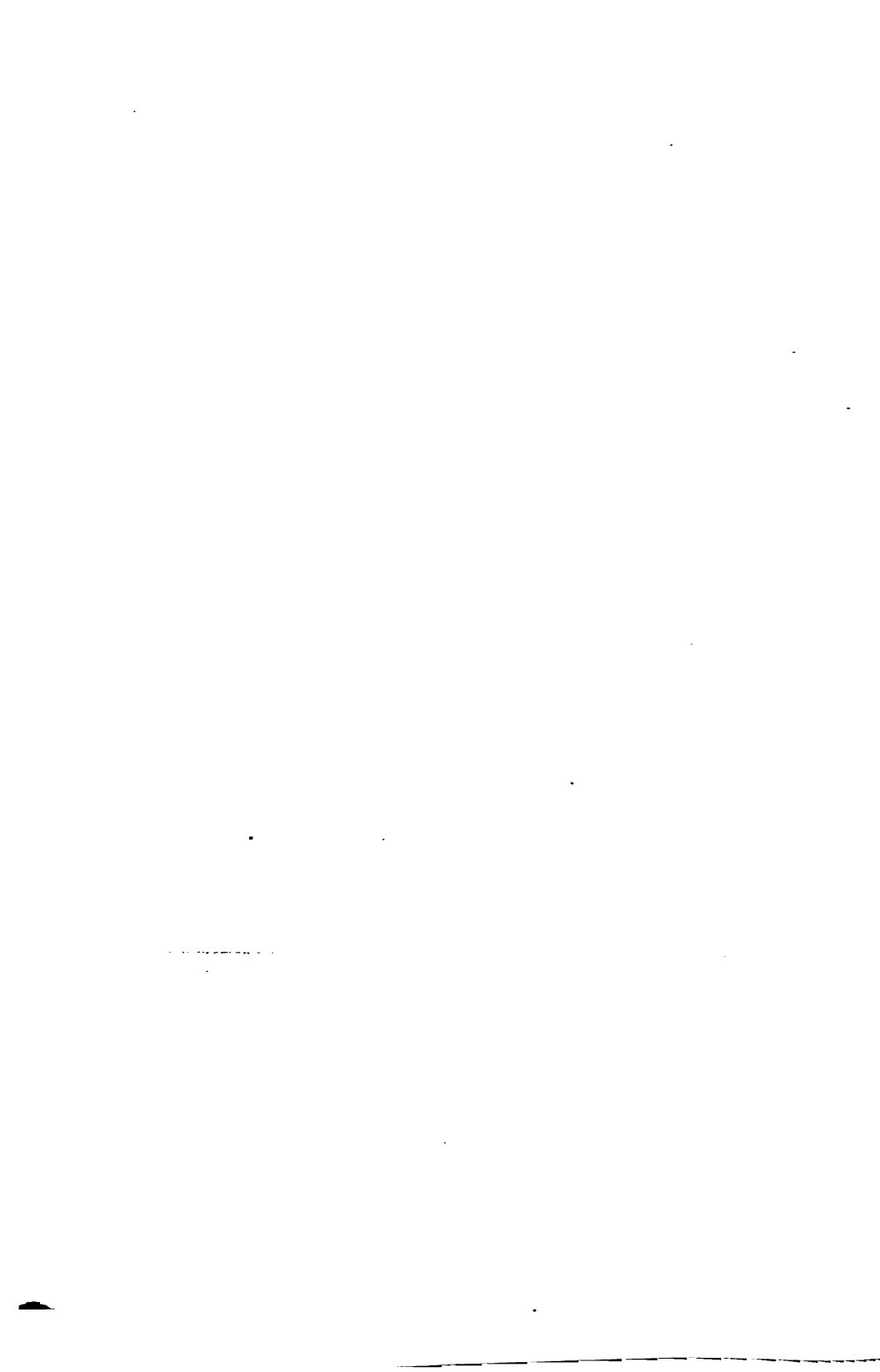
## DOCUMENTS

PRESENTED TO THE

### THIRTY-SEVENTH GENERAL ASSEMBLY OF ILLINOIS.

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- A. Protest and Argument of Illinois Coal Operators Against Adverse Legislation.*
  - B. Reply of Illinois Coal Miners to the Argument of Coal Operators Against Adverse Legislation.*
-



# PROTEST AND ARGUMENT OF THE ILLINOIS COAL OPERATORS AGAINST ADVERSE LEGISLATION.

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## PART A.

*To the General Assembly of the State of Illinois:*

There is now pending before you a number of bills which, for convenience, may be designated under the following general heads, viz.: Weekly and semi-weekly pay-bills, gross weight or screen bills, truck-store bills, eight-hour bills, arbitration bills and check-weighman bills, all of which relate to and concern the interests of all parties to this protest.

The bills which we object to being enacted into laws for the most part, if not entirely, are urged by persons who expect to be benefited by their enactment. If it be said that these arguments are prompted by selfish motives, the same may be said of all arguments in favor of the objectionable bills. The plain object of all of them is to take from the operator, and give to the miner, something more than he now gets. What warrant is there for doing so? What proof is there that the miner now gets less and the operator more than his share of the product of mines? On the contrary, statistics carefully prepared by officials of the State, show that for years past the miner's share has constantly increased, while the operator's share has relatively decreased. See paragraph hereafter, on "No necessity for legislation to increase miners' wages."

Isolated cases of hardship and injustice are constantly cited, but nothing is said of the majority who prosper and have no complaints to make. There are, perhaps, avaricious and unprincipled operators, as there are lazy, improvident and intemperate miners; but classes of men are not judged by the exceptions. We deny unqualifiedly that there is any general or even considerable oppression, extortion or injustice practiced by the coal operators of Illinois upon their employés. We are in favor of all measures for protecting the life and health of our employés. The laws of the State on those subjects are promptly and willingly obeyed, and there are many cases where precautions not required by law are taken.

Representatives of the operators whose names are signed to this paper, have within a few days met representatives of the miners, for the purpose of discussing proposed amendments to the present mining laws. Every suggestion for increasing protection to the life and health of men employed in and about mines was acceded to by the operators, and recommended to your body for passage. But when the "pay bills" and "gross weight or screen bills" were reached, the operators were met with a direct refusal on the part of the miners' representatives to discuss them, and a statement that arguments would not be considered; that they stood committed to the bills as they then read. Notwithstanding this plain disregard of the understanding upon which they had met the miners, the operators consented to proceed with the discussion of other bills. The effort was futile. Suggestions and modifications only met with refusals to consider them, and further efforts were abandoned.

We append our arguments in detail against the obnoxious legislation, together with citations of law and decisions sustaining our position on constitutional questions. We ask your special attention to the latter features. The product of coal mines in Illinois, amounts in each year to nearly, if not quite, fifteen millions of dollars. The coal operators who make this protest directly employ over thirty thousand people, and furnish employment for a vastly greater number. Their business furnishes a livelihood for probably more than one hundred and fifty thousand people. These figures are not matters of general public information, and we call your attention to them, that you may clearly see what we are satisfied you will cheerfully concede, viz.: The vast importance of the interests involved, and the necessity for great care and caution in disturbing established relations; relations which are the natural result of many years' adjustment, brought about by the only infallible guide in the business of production—the laws of supply and demand.

### NO NECESSITY FOR LEGISLATION TO INCREASE MINERS' EARNINGS.

AVERAGE VALUE OF COAL AND AVERAGE PRICES FOR MINING IN ILLINOIS, FROM 1883 TO 1889, INCLUSIVE.

1883.		1884.		1885.		1886.		1887.		1888.		1889.	
Average value of coal.	Average price of mining.	Average value of coal.	Average price of mining.	Average value of coal.	Average price of mining.	Average value of coal.	Average price of mining.	Average value of coal.	Average price of mining.	Average value of coal.	Average price of mining.	Average value of coal.	Average price of mining.
1.48	.802	1.26	.788	1.17	.725	1.11	.676	1.085	.727	1.1226	.7171	1.0775	.731
*51%		*62%		*62%		*61%		*67%		*64%		*68%	

\* Percentage of miners' wages to total value.

The above is taken from "Statistics of Coal in Illinois, 1889." No comment upon the above figures is necessary. The operator has not only received, year by year, less and less for his product, but has constantly given to the miner a greater share of what he has received.

### SOME FIGURES SHOWING INDIVIDUAL EARNINGS OF COAL MINERS IN ILLINOIS WITHIN THE LAST SIX MONTHS.

#### THE CHICAGO, WILMINGTON AND VERMILION COAL COMPANY'S MINES.

John Poloski, Streator, December, 1890, (mine run 20½ days).....	\$32 50
George Poloski, Streator, December, 1890, (mine run 20½ days).....	92 30
T. Barrowman, Seatonville, November, 1890, (mine run 19½ days).....	138 70
William Bolt, 19½ .....	115 45

#### SPRING VALLEY COAL COMPANY'S MINES.

Pat Keeney, Shaft No. 3, October, 1890, (number of days not given).....	\$121 19
Pat McQuade, 3 .....	113 81
M. J. Mulligan, Shaft No. 2, December, 1890, (number of days not given).....	111 56

## 395

Wm. Christian, Dunfermline, September, 1890, (mine run 23 days).....	\$106 01
Wm. Christian, Dunfermline, October, 1890, (mine run 18½ days).....	112 25
Nich. Bonnett and boy, November, 1890, (mine run 21.7 days).....	136 02
Angelo Guinzy, November, 1890, (mine run 21.7 days).....	92 14
John Rand, December, 1890, (mine run 17 days).....	89 30
N. Bennett and boy, December, 1890, (mine run 17 days).....	110 67

John Clark, Coal City, January, 1891, (number of days not given).....	\$118 75
John Clark, " February, " " " " .....	105 10
H. Penna, " March, " " " " .....	136 20
Phillips & Fowasley, Kangley, March, 1891, (number of days not given) earned by two men.....	181 40

J. and W. Robbins, Kangley, (number of days not given).....	\$1,404 60
Rouse and Ronda'.....	1,252 80
Above earned by two men.	

John Horn, Braceville, March, 1891, (worked 21 days).....	\$96 25
Wm. Bailey, " January, " " 22 .....	82 90
Joe Peart, " " " 22 " .....	82 90

We would like to know how many laboring men in Illinois are doing better than the ones whose names are given above. Further, we would like to know how many mechanics are doing better. It is not probable

that any of the miners whose names appear above as the best wage-earners in their business, will be found spending the time in which they might otherwise support their families in comfort, in endeavoring to secure the passage of laws which will put lazy and dishonest men upon equality with them. Sensible and industrious men are not in the habit of dropping the substance to grasp at the shadow, or lending themselves to the machinations of the far less worthy.

*Weekly and Semi-Weekly Pay-Bills.*—This head embraces Senate Bill No. 26, House Bill No. 110, and any other bills purporting to control the periodical payment of employes. They are all alike in character, and attempt unwarrantably to invoke the police power of the State for the regulation of private business; and to deny to all persons or corporations embraced in their provisions the privilege to contract for labor. In either of these aspects, as we shall show hereafter, these bills are wholly unconstitutional and void. Furthermore, they are not even consistent, reasonable or just. Senate bill No. 26 is particularly inconsistent, and has no claim upon the respect of those against whom it is directed. With full knowledge that his bill is thereby rendered wholly unconstitutional and void, the author has nevertheless carefully exempted railroads from the provisions of his bill. The largest single element of labor in the State is denied the alleged benefits of the bill. Further, railroad employes are the only large element of labor who are denied such alleged benefits. And most unjust, inconsistent and insincere of all, railroads, the only large employers of labor who do business on a strictly cash basis, are exempted from its burdens. When you go on a railroad journey you pay your fare in cash before you enter the cars; when you receive freight by rail you pay the charges before you receive your property. What is the motive for this omission, or, if there is no motive, why is not the omission corrected? The attention of the promoters of the bill has been called to it, but they have neglected the opportunity to prove the consistency and sincerity of their intentions.

Independent of constitutional questions, these bills are open to strong objections. They interfere with the settled rules established throughout the country by common consent for the transaction of all business. By far the greater part of all business of the country is done on thirty days time as equivalent to cash. The laborer, as well as every other man of reputable habits, can buy on such terms. The coal operators, the manufacturers and employers generally, pay their laborers every thirty days and in turn sell their product at thirty days, and so the round of business goes. To single out and break one link of the system by shortening the time of payment, would operate as a hardship on one of the parties concerned, and be of doubtful benefit, to say the least, to the other, and destroy the equality of the system. Where 2,000 or more men are employed, several days are now required to post the accounts, make out the pay-rolls and prepare checks for payment. To double the work would largely increase the expense, and many employers who now find much difficulty in meeting monthly pay-rolls, would be utterly unable to meet them semi-monthly, with only monthly returns from their sales on which to depend.

It is within the knowledge of all, and cannot be denied, that "pay-day" at coal mines, and in some other occupations, means one, two or three days of idleness, and often that many days of dissipation. To double these pay days means, in all cases, double the idleness and dissipation, which also means double the amount of money spent at the saloon, double the loss of family comfort, double the loss of time to the employe, and double the loss of time to the mine or other industry from enforced idleness, as well as double the loss of time to the sober and industrious miner who does not dissipate, but who is prevented from labor during such days as the mine stands idle.

The most conclusive objection to these bills, is their absolute unconstitutionality, is so far as they propose to interfere with the right of all persons to contract with each other. On a later page herein, we shall set out fully the constitutional provisions and Supreme Court decisions on which

the objections are based, showing conclusively the correctness of our claim.

*Gross Weight or Screen Bills.*—This embraces Senate bills Nos. 24, 137, 227, and House bills Nos. 87, 109 and 153; and other bills purporting to control the manner in which the price per ton for mining coal is adjusted.

The manner in which it is proposed to get at this question is by requiring that all coal shall be weighed "on top" in the box or pit-cars in which it is loaded by the miner in the mine, instead of weighing the lump coal after it has been dumped over a screen.

In order to fully understand the scope and operation of these bills, it will be necessary to explain how coal is at the present weighed at the majority of mines. Each pit-car, as it comes from the mine, has on it a check by which the weighman knows what miner the coal is to be credited to. The car is pushed upon the tippie and dumped, the contents passing down over a screen chute through which the slack, dirt, etc., falls, while the "lump" or larger coal passes on into the railroad car at the foot of the chute. The weight of this lump coal is then taken by track scales, and the amount of such weight credited to the proper miner. This operation is repeated with each pit-car as it comes from the mine. The miner's wages are adjusted on the amount of lump coal thus produced, as it is not material upon what basis his pay depends if he is paid a fair price for his labor. In short, he is paid for the merchantable coal produced.

The bill proposes to change this entire plan, and compel the operator to abandon the use of track scales for such purpose, and put in at the top of the tippie new scales to do this weighing. In effect, the bills prescribe the method by which mines shall be run, and by severe penalties prevent not only the operator but the miner, from pursuing any other or better method. That the method of weighing in the railroad car on the track is better and fairer, where coal is mined by hand, has never been questioned by any unprejudiced person familiar with coal mining, be he miner or operator.

The following are some of the reasons for this assertion:

In all mines producing domestic coal the object is to get as large a percentage as possible of lump coal, as that is the most valuable for use, and hence commands the highest price, while the finer coal and slack is either thrown aside and wasted, or sold at a much lower price. Whatever tends to increase the proportion of "lump" coal prevents a waste of the coal. The amount of coal wasted depends largely on the skill and care of the miner in mining it. An unskillful or careless miner will make double the amount of fine and slack coal in mining out a cubic yard that a skillful and careful one will, thus practically destroying what is, and might otherwise continue to be, an item of economic value. Or, if the miner is disposed to be dishonest, he can load dirt and rock in the bottom of his car and cover it with good coal. If the miner has no care as to the amount of fine coal, dirt, etc., which he sends out of the mine he will use more powder, blast the coal recklessly, destroying the value of much of it, and largely increasing the hazard of mining to human life and limb. For it is a well known fact that too free use of powder in mines tends to generate an explosive dust and dangerous gases.

By the proposed law, miners must each be paid the same sum per pound for the contents of their cars, regardless of the skill and care used in the production or the value of it to the operator, thus offering a premium for unskillful, careless or dishonest work, to the disadvantage and loss of the operator and the useless waste or destruction of one of the sources of economic wealth of the country.

It is a well known fact that coal miners do not hesitate to make application to the operators for any change of the methods which are desired by a majority of them. This they do for an increase of wages, for the appointment of check-weighmen, and the like. If the demand is complied with, or they are shown that it is unfair, that settles it. If not, the de-

mand is enforced by a strike. It is also a fact that no general application to operators has been made for "weighing on top," or for any such changes as these bills contemplate. The great majority of miners are content with the present method of weighing, but there are always a few restless agitators at every mine, who are never satisfied unless they are fomenting discord or devising some plan to cause trouble.

If the change is made, wages must be readjusted on a basis per ton or car contents, including coal, dirt and rock. The scale or rate per ton for mining must then be reduced, or the selling price increased, as there is not sufficient margin now between the cost of coal and the selling price to bear the consequent increase of cost. The readjustment of wages is always a fruitful source of difficulty between those concerned. The chief obstacle which mine operators have to surmount in the operation of a mine to its full capacity, is a failure to pass the coal over the tippie and into the railroad cars as fast as it is delivered from the mine. Where the coal is weighed on the railroad car after being dumped, no time that could possibly be saved is lost, as the weight is taken while the pit-car is being run back from the tippie, and another run on. If the coal must be weighed in the pit-car, the car must stop at the top scales before being dumped, and all the time required in doing this is wasted; and if strict compliance is enforced, it would operate to diminish the capacity of the mine quite 25 per cent., and this, in most cases, would retard the mining to the detriment of the miners, who would not be able to put in full time. If this movement is probed to the bottom, it will be found to rest wholly on sentiment, namely, that the miner's pay should be based on all the coal he mines, instead of on lump coal alone. It is not claimed that he will get more pay, or that the system of weighing on the track is not fair or accurate.

It has also been said that the bill requiring weighing in the pit-cars does not compel payment for rock, dirt, etc., in the car, but for coal only. The originator of this thought fails to inform you how the weight of the "coal only" is to be determined in such case. Again, it is said that the miner is paid for but seventy-five per cent. of the coal mined by him. This is not correct, but is juggling with words. The miner is paid for all the coal he mines, just as actually as if he was paid by the day, but the basis for ascertaining the amount of his pay is the clean screened coal; and if his wages are sufficient, it is not material how they are arrived at.

The carpenter, the mechanic, the cabinet maker and the laborer generally, when not paid by the day, is paid on the basis of the finished work he produces, and not on the amount of material he uses, nor on the sum of his finished work added to the chips he makes. What reason is there for paying the miner for his chips, if for his finished work (the lump coal), he receives adequate compensation for his labor? As before stated, the claim must be based on the purely sentimental ground that he should have the total of his product weighed, and his pay based thereon; and on this ground alone the legislature is asked to act. It is this abstract sentiment, so seductive in the theory but so useless in practice, that enables the agitator to win the unthinking to the support of this scheme.

It is only claimed for these bills that they will require payment to be made to the miner on the basis of all the coal, slack, fine and lump, that he mines, instead of on the basis of screened coal only. Now the miner not only mines out coal, but he also lays track and sets props in his room, and does other things in connection with the digging of the coal, all of value to the operator and which enter into the question of the rate of wages, but which, for convenience (like the fine coal) are not separately figured, because it would require a vast amount of useless oversight and book-keeping to do so. There is just as much reason, however, for having an account kept of, and pay based on those items, as on the fine coal. The whole question is simplified and the opportunity for mistake removed by raising the pay on the one item of screened coal, and if that pay is adequate for all the labor performed, that is all there is in it. Our claim



is, that the system of weighing after screening it is the best, fairest and most accurate system that can be devised; that it serves to unite the interests of the miner with that of the operator and the State, to produce the greatest possible quantity of merchantable coal of the highest grade and greatest economic value, and at the same time operates to the advantage of the skillful and careful miner. A distribution of the price paid, so as to cover specifically by weight the different grades of coal produced, would be a matter of sentiment merely, and of no benefit to the miner, but a disadvantage to the operator. If the price paid for lump coal is not sufficient remuneration for the miner's labor, the complaint should be against insufficient wages, and not against the system. The same constitutional objections exist against these bills as against the "pay bills", hereinbefore referred to. They will be treated under the same heading later on.

*Truck-Store Bills.*—This heading embraces House bill No. 75 and Senate bills Nos. 27, 40 and 56, and any other bills of similar nature. Although different in details, the general intent of all these bills is the same. In effect they provide:

That payment of wages shall be made in cash, or paper calling for cash, and that no order or paper payable otherwise than in money shall be given in payment of such wages. These bills are not uniform in their scope. Generally speaking, they are aimed at all employers of labor except farmers, but it is commonly understood that operators of coal mines are especially sought to be affected. We know of no particular objections to such laws except their unconstitutionality and frivolity. What a commotion it will raise if tailors, printers, merchants, traders and people generally are forbidden by law to employ any one on condition that he shall take a part or all his wages "in trade!" Even the owner of a small country coal bank shall not permit his neighbor who wants some coal, to dig on shares. What a travesty on legislation and a reproach to freedom such a law would be! How much a miner ought to admire and reverence a law which forbids his procuring from his employer an order for a ton of coal before pay day, for domestic use. The same observations apply to the prohibition against paying in orders. This practice benefits the employé as much as it does the employer. It is to his advantage to thus be able to obtain advances on his pay, for his needs before pay day arrives. No employé to our knowledge, is ever compelled or coerced to take them. As they are advanced on his pay it is difficult to see just how this prohibition would help him. So far as we know about "company stores" and the payment of wages in orders thereon as desired by the laborer, he is placed at no disadvantage. We do not think the majority of employés are making much if any objection to them. Our experience as to the results where miners procure promiscuous credit at stores not connected with the mines and protected by orders from loss is, that just before pay day, some merchant having doubts about some miner's pay being sufficient to pay all his debts, or doubts his willingness to pay, garnishees the company for his wages, and by the time the debt and costs are paid the entire wages are consumed. At mines where there are no "company stores," these garnishments are apt to be numerous and a fruitful source of unnecessary expense to the miner.

Many of these outside stores keep intoxicating liquors. "Company stores" do not keep intoxicating liquors, and if the operators or coal miners had the power to prohibit altogether their sale at or near the mines, or the legislature would do so, it would do more to promote the health, safety and general welfare of the miners than any law that could be enacted. To every one familiar with the every-day history of coal mining towns, and the same is true of many other employments, it need only be said that the net result of the passage of the bills now under consideration will be evil, and only evil, to all concerned. They proceed upon the theory that the operators of coal mines have such arbitrary control of the miners that they can, and have such desire that they will, unless restrained by law, oppress the miners; and that the latter are without means of relief except through legislative interference; and that in order

to effect the object sought, laws must be enacted which not only interfere with the personal liberty of the employer, but equally so with that of the employé, and are wholly contrary to American ideas and the genius of American institutions.

While it must be admitted that there are, and always will be as long as employers are fallible men, occasional injustice done, it is nevertheless true in the operation of coal mines (and more or less so in all other occupations), that the employer's interest is advanced in proportion to the sobriety, content and comfort prevailing among the miners; that his control of them in every respect rests upon the most uncertain foundation, and is merely nominal; that the miners' methods of securing compliance with all just demands are more peremptory and more frequently resorted to by them than any other class of laborers; that whenever they have a general and just complaint they do not await legislative action, but proceed by a more summary and effective means to the attainment of their object. These bills are also unconstitutional, in that they make no exception of cases where parties contract to do otherwise than as provided. The laws and decisions on these points will be cited hereinafter.

*Eight-Hour Bills.*—This head embraces Senate bill No. 38 and House bill No. 13. We have not been able to secure a copy of the former, but have read the latter, and carefully considered its provisions. The strongest objection to any eight-hour law is that it tends to paternalize government, and to interfere with what should be left to voluntary adjustment between employer and employé. When the time comes ripe for an eight-hour day its observance will come without any statutory law. House bill No. 13 proposes to take the administration of their affairs out of the hands of employers and employés alike, and force an eight-hour day upon them whether they want it or not. It is claimed by the friends of the bill that the effect which it is hoped the eight-hour day would have, is not an increase in the present rates of wages, but a wider distribution of what labor there is, taking away from those who have and giving to those who have not. This is all very philanthropic, but we beg leave to doubt the motives of those who make such a statement.

In the operation of a coal mine it is frequently practical to work three or four men in a "room" or working place where two now work. Why are not coal mine operators requested to do so? They would be willing. It would increase the output of their mine and the value of their property in proportion. The plain truth is that they have never been so requested but have been met with the bitterest opposition whenever it has been tried. The enforcement of an eight-hour law under present conditions would act as a confiscation of private property. A manufactory or mine, as now equipped, could in eight hours produce only eighty per cent. of what it produces in ten hours, thus lessening its capacity twenty per cent. and its value accordingly. To maintain their present capacity, manufacturers and mine operators would be obliged to increase their present plants and their capital invested by twenty per cent. without any increase in income. If, in addition to this, they are obliged to pay ten hours' wages for eight hours' work (and what class of labor will be first to take less without a strike?) thus increasing the cost of production twenty-five per cent., how many of them can continue in business? Is any such confiscation of private property justifiable under existing conditions? On the contrary it would be wholly unjustifiable and utterly unconstitutional, because it would be a taking of private property without making compensation therefor, and also in so far as it attempted to prevent those who wish to do so from working as many hours per day as they desire, and from making a valid contract to do so. We refer to the law and decision appended hereto sustaining our position.

*Arbitration Bills.*—This head embraces Senate bill No. 191, and House bills Nos. 238, 285 and 455.

It is difficult to conceive anything more opposed to the genius of American institutions than the objects of these bills. There is already a good arbitration law on the statute books which provides a satisfactory method

whereby all persons may arbitrate any questions which they may desire to submit. This is not good enough for persons who, having no business of their own to attend to, are exceeding anxious to get their hands into other people's business. It is not enough for those who, having no property rights to be jeopardized by the action of others, desire to drag those who have such rights down to their condition. The law, as it now stands, is good enough for every business man and property owner from the greatest to the humblest. Under it the lawful rights of every one are safe. What is now proposed is not that the safeguards to individual rights shall be increased, but that they shall be absolutely thrown down. At the whim of any person, responsible or irresponsible, the farmer, the merchant, the banker, the lawyer, any one, in fact, may be compelled to surrender his personal liberty and property to the judgment of others, in matters which no enlightened democratic government under the sun has ever sought to regulate by statute law. In place of stability, order and substantial justice, there would be instability, disorder and injustice at the hands of the irresponsible, increased a hundredfold. As it is now, arbitrations are often no better than a farce. The responsible man is bound by his interest or his self-respect; the irresponsible one is not. To make compulsory the arbitration of questions relating wholly to private interests, would make universal such injustice as is now only occasional or exceptional. Private rights would be unsafe under such laws as those proposed. An unsuitable, inefficient, even a dishonest employé, could not be discharged without the employer being compelled to neglect his business to explain to this board or that board why he did it. The time of men of large affairs would be consumed in petty arbitrations, to the serious, if not fatal, detriment of their interests.

We feel like asking the pardon of your honorable body for having impliedly assumed that the idea of compulsory arbitration of purely private rights would be entertained by you.

The constitutional aspects of this class of legislation are shown in a later page herein.

*Check-Weighman Bills.*—This head embraces Senate bill No. 137, and House bills Nos. 130 and 224.

Paragraph "B," section 3, of the present law regarding check-weighmen, reads as follows: "The agent employed by the miners as aforesaid, to act as check-weighman, shall be an employé of the person or persons operating the mine, a citizen of the State and county wherein the mine is situated, and shall, before entering upon his duties, make and subscribe to an oath before some officer duly authorized to administer oaths, that he is duly qualified, and will faithfully discharge the duties of check-weighman; such oath shall be kept conspicuously posted at the place of weighing."

In Senate bill No. 137 and House bill No. 224, it is proposed to eliminate the words "shall be an employé of the person or persons operating the mine;" also to substitute the words, "a citizen of the United States" in place of the words "a citizen of the State and county wherein the mine is situated." House bill No. 130 proposes to entirely eliminate both of the foregoing provisions. The objects of these amendments is to enable the miners to select a check-weighman without regard for the interests of the mine operator; and if they desire, to import an agitator who shall be quartered upon the premises of the operator for the purpose of stirring up strife between employer and employé. Either the above is true, or these amendments imply that the miners cannot among themselves find one person with whom it is safe to trust their own interests.

Under the present law, the miners may select from among themselves any one on the pay-roll of the mine operator, and when once so selected, the operator can make no objection to such person so long as he keeps within the obligations of his oath. What more is necessary to insure fair play to both miner and operator, and surely both are entitled to fair play? No one concerned in this protest has anything to conceal in the matter

of weights. We are willing that our scales shall be tested whenever and as often as the miners desire, and that they may have for their check-weighman any one not inimical to our interests. We submit to you candidly whether honest, fair play demands anything more.

In conclusion, we wish to say that we desire to avoid everything which tends to make less friendly the relations between employers and their employes. Upon mutual fairness and good feeling depends, to a greater or less extent, the prosperity of both. We deny that we are in any way responsible for the existing unprofitableness of coal mining, which falls alike upon the miner and the operator. We protest against existing social conditions, even though they may be onerous in individual cases, being remedied solely at our expense. We conceive the highest duty of good citizenship to be obedience to just laws fairly enacted, but we can see in the enactment and attempted enforcement of such laws as those herein discussed, nothing but encouragement of strikes, disturbances, destruction of property, and suffering to persons innocent of causing the results which they must bear most heavily.

We append next following, the law and decisions upon the constitutional questions we have raised.

CONSOLIDATED COAL COMPANY, of St. Louis, Mo.

CHICAGO, WILMINGTON & VERMILION COAL Co., Chicago, Ill.

STAR COAL COMPANY, Streator, Ill.

SPRING VALLEY COAL COMPANY, Spring Valley, Ill.

WHITEBREAST FUEL COMPANY, Chicago, Ill.

CHICAGO, MILWAUKEE & ST. PAUL MINES, Braceville, Ill.

LaSALLE COUNTY CARBON COAL COMPANY, LaSalle, Ill.

OGLESBY COAL COMPANY, Oglesby, Ill.

E. L. MONSER, Wenona, Ill.

BARCLAY COAL COMPANY, Springfield, Ill.

STARNES' COAL COMPANY, Springfield, Ill.

SANGAMON COAL COMPANY, Springfield, Ill.

SPRINGFIELD COAL & TILE COMPANY, Springfield, Ill.

RIVERTON COAL COMPANY, Springfield, Ill.

EMPIRE COAL COMPANY.

WABASH COAL COMPANY.

ATHENS COAL COMPANY.

BLACK DIAMOND COAL COMPANY.

MUDDY VALLEY MINING & MANUFACTURING COMPANY, Cairo, Ill.

EDWARDS MINE, Edwards, Ill.

KRAMMS MINE, Kramms, Ill.

And other coal operators of Illinois.

## APPENDIX.

The following constitutional objections are made to the bills hereinbefore discussed:

*Weekly and Semi-Weekly Pay-Bills.*—1. These bills are all unconstitutional, in so far as they single out special classes of employers, upon whom the burdens of the law will be imposed, and except others therefrom.

2. In that they impose burdens, not now borne, upon property holders which are in the nature of a taking of private property without providing compensation therefor; and further, because such burdens cannot be justified as a proper exercise of the police power of the State.

3. They are also unconstitutional, in so far as they interfere, or propose to interfere, with the private right to make contracts.

*Gross Weight or Screen Bills.*—1. These bills are all unconstitutional, for the same reasons as stated in the second paragraph last above.

2. They are also unconstitutional, in so far as they interfere or propose to interfere, with the private right to make contracts.

*Truck-Store Bills.*—1. These bills are all unconstitutional, because they single out a class of persons to whom the rights and privileges accorded to all other citizens of the State are denied, viz.: That of pursuing the lawful business of barter and sale.

2. They are also unconstitutional in so far as they interfere, or propose to interfere, with the private right to make contracts.

*Eight-Hour Bills.*—1. These bills are unconstitutional as class legislation, because they exempt from their force one of the largest elements of labor in the State.

2. In that they impose burdens not now borne upon property holders which are in the nature of a taking of private property without providing compensation therefor; and, further, because they cannot be justified as a proper exercise of the police power of the State.

3. They are also unconstitutional in so far as they interfere, or propose to interfere, with the private right to make contracts.

*Arbitration Bills.*—1. These bills are unconstitutional, because they interfere with the exercise of personal rights and impair vested property rights, all of which are guaranteed both by the constitution of the United States and the State of Illinois.

2. Because they propose to establish an unlawful police supervision of personal and property rights, which are guaranteed as stated above.

*Constitution of the United States, Fourth Amendment.*—"The right of the people to be secure in their persons, houses, papers and effects against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized."

*Constitution of Illinois, Article II., Section VI.*—"The right of the people to be secure in their persons, papers and effects, against unreasonable searches and seizures, shall not be violated; and no warrant shall issue without probable cause, supported by affidavit, particularly describing the place to be searched and the persons or things to be seized." Both of the above provisions are especially applicable to the proposed arbitration laws.

*Article II., Section XIII.*—"Private property shall not be taken or damaged for public use without just compensation. Such compensation, when not made by the State, shall be ascertained by a jury, as shall be prescribed by law." \* \* \* \* \*

*Article IV., Section XXII.*—"The general assembly shall not pass local or special laws in any of the following enumerated cases: that is to say \* \* \* In all other cases where a general law can be made applicable, no special law shall be enacted."

*The Supreme Court of the United States. Butchers v. Crescent City. III. U. S., 757.*—"FIELD, J. The common business and callings of life, the ordinary trades and pursuits, which are innocuous in themselves, and have been followed in all communities, from time immemorial must, therefore, be free in this country to all alike upon the same conditions. The right to pursue them without let or hindrance, except that which is applied to all persons of the same age, sex and condition, is a distinguishing privilege of the citizens of the United States, and an essential element of that freedom which they claim as their birthright. It has been well said that 'the property which every man has in his own labor, as it is the original foundation of all other property, so it is the most sacred and inviolable.' The patrimony of the poor man lies in the strength and dexterity of his own hands, and to hinder his employing this strength and dexterity in what manner he thinks proper, without injury to his neighbor, is a plain violation of this most sacred property. It is a manifest encroachment upon the just liberty both of the workman and of those who might be disposed to employ him. As it hinders the one from what he thinks proper, so it hinders the other from employing whom they think proper."

*Judge Cooley in his Work on Constitutional Limitations, Fifth Edition, Page 486 (Star), Page 393, also says:*

"The doubt might also arise whether a regulation made for any one class of citizens, entirely arbitrary in its character, and restricting their rights, privileges, or legal capacities in a manner before unknown to the law, could be sustained, notwithstanding its generality. Distinctions in these respects must rest upon some reason upon which they can be defended, like the want of capacity in infants and insane persons; and if the legislature should undertake to provide that persons following some specified lawful trade or employment should not have capacity to make contracts, or to receive conveyances, or to build such houses as others were allowed to erect, or in any way to make such use of their property as was permissible to others, it can scarcely be doubted that the act would transcend the due bounds of due legislative power, even though no express constitutional provision could be pointed out with which it would come in conflict. To forbid to an individual, or a class, the right to the acquisition or enjoyment of property in such manner as should be permitted to the community at large, would be to deprive them of liberty in particulars of primary importance to their 'pursuit of happiness,' and those who should claim a right to do so, ought to be able to show a specific authority therefor, instead of calling upon others to show how and where the authority is negative."

*The Supreme Court of Illinois. Millet v. People, 7 N. E. Rep., 631.*—1. Constitutional law—Mining coal—Act compelling measurement of coal by weight as basis of wages, unconstitutional.

The act of June 29, 1885, amendatory of the act of June 14, 1883, to provide for the weighing of coal at the mines, requiring the owners and operators of mines to provide scales, and weigh all coal taken out, and making such weight the basis of wages, is unconstitutional.

2. Same—Record of weight for public information—Compelling keeping of, a taking for public use.

Such act is indefensible on the ground that it requires the keeping of a public record for the information of the public. The requirement that such a record be kept is a taking for public use, and, unless compensation be provided, the act so taking is void.

• 3. Same—Coal mining not a public employment.

Such act cannot be sustained on the ground that the mining of coal is a public employment, and subject to necessary regulations for the public good. The mining of coal was not at common law affected with a public use, and is not, like the business of warehousing grain, or of common carriers, a business, upon the following of which the public are compelled to call.

SCHOFIELD, J. The defendant was indicted and convicted of failing, as the agent of a certain coal mine, to cause to be furnished and placed upon the railroad track, adjacent to the coal mine, a track-scale of standard measure, upon which to weigh the coal hoisted from the mine, as provided by Section 1 of "An act to provide for weighing of coal at the mine," approved June 14, 1883, and the several sections of the act to amend Sections 2, 3 and 4 of that act approved June 29, 1885.

The second section of the amendatory act, approved June 29, 1885, requires that all coal produced in this State shall be weighed on the scales, as provided in Section 1 of the act approved June 14, 1883, and that a correct record of the same shall be kept, in a well-bound book furnished by the owner, agent or operator of such mine for that purpose, by a competent person, at the expense of such owner, agent or operator; said record to be subject to the inspection (at all reasonable business hours) of the miner, operator, carrier, land owner, adjacent land owner, member of the Bureau of Labor Statistics, mine inspectors, and all others interested. Section 3 provides that it shall be lawful for the miners employed in any coal mine or colliery in this State to furnish a check-weigher at their own expense, whose duty it shall be to balance said scales, and see that the coal is properly weighed, and keep a correct account of the same, and for this purpose he shall have access, at all times, to the beam-box of said scales, while such weighing is being performed. The fourth section provides that a fine, or fine and imprisonment, as prescribed, shall be enforced on any owner or agent operating a coal mine failing to comply with these provisions, and another section provides that all contracts for the mining of coal in which the weighing of coal as provided for in that act shall be dispensed with, shall be null and void. The question is thus presented whether it is competent for the general assembly to single out owners and operators of coal mines as a distinct class, and provide that they shall bear burdens not imposed on other owners of property or employer of laborers, and prohibit them from making contracts which it is competent for other owners of property or employers of labor to make. "The rights of every individual must stand or fall by the same rule or law that governs every other member of the body politic or land under similar circumstances; and every partial or private law which directly proposes to destroy or affect the individual rights, or does the same thing by affording remedies leading to a similar consequence, is unconstitutional and void. Were it otherwise, odious individuals or corporate bodies would be governed by one law; the mass of community, and those who made the law, by another; whereas, a like general law, affecting the whole community equally, could not have been passed."

What is there in the condition or situation of the laborer in the mine to disqualify him from contracting in regard to the price of his labor, or in regard to the mode of ascertaining the price? And why should the owner of the mine not be allowed to contract in respect to matters as to which all other property owners and agents may contract? Undoubtedly, if these sections fall within the police power, they may be maintained on that ground; but it is quite obvious that they do not. Their requirements have no tendency to insure the personal safety of the miner, or to protect his property or the property of others. They do not meet Dewarris' definition of police regulations. They do not have reference to the comfort, the safety, or the welfare of society. The main reliance of the counsel representing the State to sustain the ruling below seems, however, to be on the ground that mining for coal is affected with a public use, so that it may be regulated by law, like public warehouses, as held in *Munn v. Illinois*, 94 U. S. 113.

It cannot be claimed that mining for coal was by the common law affected with public use, and therefore specially regulated by law, like the business of innkeepers, common carriers, millers, etc., and, in our opinion, it is not like the business of public warehousing, within the principle controlling such classes of business. The public are not compelled to resort to mine owners any more than they are compelled to resort to the owners of wood or turf or even to owners of grain, domestic animals, or to those owning any of the other ordinary necessities of life which form a part of the commerce of the country. The owner of a coal mine is under no obligation to obtain a license from any public authority, and, therefore, when he chooses to mine his coal, he exercises no franchise. We are aware of no case wherein it has been held that the owner or operator of a coal mine stands on a different footing, as respects the control and sale of his property, than the owner or operator of any other kind of property in general demand by the public.

We recognize fully the right of the General Assembly, subject to the paramount authority of Congress, to prescribe weights and measures, and to enforce their use in proper cases, but we do not think that the General Assembly has power to deny to persons in one kind of business the privilege to contract for labor, and to sell their products, without regard to weight, while at the same time allowing to persons in all other kinds of business this privilege; there being nothing in the business itself to distinguish it in this respect from any other kind of business.

*The Supreme Court of Pennsylvania. Godcharles v. Wigeman. 6 Atlantic Reporter, 354.*—2. Constitutional law—Rights of persons, *sui juris*, to contract for themselves—Set-off—Pennsylvania act, June 29, 1881. §§ 1-4.

Sections 1, 2, 3 and 4, of the Pennsylvania act of June 29, 1881, providing that the payment of wages of laborers in and about iron mills, etc., should be paid at regular intervals and in lawful money of the United States, is unconstitutional and void, as preventing persons, *sui juris*, from making their own contracts, and in an action by such a laborer against a mill-owner for wages, the mill-owner may set off orders for provisions, etc., given by the laborer and paid by the mill-owner.

GORDON, J. The first assignment cannot be sustained \* \* \*

The seventh assignment must be sustained. The orders given by the defendants, and received by the plaintiffs, constituted a proper set-off. The first, second, third and fourth sections of the act of June 29, 1881, are utterly unconstitutional and void, inasmuch as by them an attempt has been made by the legislature to do what in this country can not be done—that is, prevent persons who are *sui juris*, from making their own contracts. The act is an infringement alike of the constitutional rights of the employer and the employé. More than this it is an insulting attempt to put the laborer under a legislative tutelage, which is not only degrading to his manhood, but subversive of his rights as a citizen of the United States. He may sell his labor for what he thinks best, whether money or goods, just as his employer may sell his iron or coal, and any and every law that proposes to prevent him from so doing is an infringement of his constitutional privilege, and consequently vicious and void.

*The Supreme Court of West Virginia. State v. Goodwill; Sume v. Minor. 10 S. E. Rep., 285, Nov., 1889. Constitutional Law—Regulation of Private Business.*—1. It is not competent for the legislature, under the constitution, to single out owners and operators of mines, and manufacturers of every kind, and provide that they shall bear burdens not imposed on other owners of property or employers of labor, and prohibit them from making contracts which it is competent for other owners of property or employers of labor to make. Such legislation cannot be sustained as an exercise of the police power.

2. The third section of chapter 63, acts 1887, which prohibits persons engaged in mining and manufacturing from issuing for the payment of labor, any order or paper, except such as is specified in said act, is unconstitutional and void.



SNYDER, P. These two cases present the same questions, and may, therefore, be considered together. Both are indictments and convictions for the violation of section 3 of chapter 63, acts 1887. The first and third sections are in these words: "(1.) That all persons, firms, corporations or associations in this State engaged in mining coal, ore or other minerals, or mining and manufacturing them, or either of them, or manufacturing iron or steel, or both, or any other kind of manufacturing, shall pay their employés as provided in this act." "(3.) That it shall not be lawful for any person, firm, company, corporation or association engaged in the business aforesaid, their clerk, agent, officer or servant, in this State, to issue for the payment of labor any order or other paper whatsoever; unless the same purports to be redeemable for its face value in lawful money of the United States, bearing interest at the legal rate, made payable to employé or bearer, and redeemable within a period of thirty days by the person, firm, company, corporation or association, giving, making or issuing the same."

The residue of the section makes its violation a misdemeanor, and fixes the penalty at not less than \$25 or more than \$100.

The main question argued before this court is, whether or not the said statute is constitutional, the counsel for the plaintiffs in error contending that it is unconstitutional and void. It will be observed that this statute applies to certain specific classes of persons, firms, companies, corporations and associations, and none others. It is by its terms limited to persons, corporations, etc., engaged in mining coal or other minerals, or any kind of manufacturing. While these terms include not only all persons engaged in manufacturing iron and steel, but all persons engaged in any kind of manufacturing, such as the shoemaker, the cigar-maker, the undertaker, the distiller, the brick-maker, the jeweler, the weaver, the milliner, the dairy-man and the miller, it does not include the wholesale merchant, with his hundreds of clerks and agents; the railroad construction companies, or railroad companies, with their thousands of employes. The rights and privileges of certain specified employers are abridged, while others of the same class are left free. By the first section of the fourteenth amendment of the Constitution of the United States, all persons born or naturalized in the United States, are made citizens thereof; and it there declares that "No state shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States." And the "Bill of Rights" of this State declares that "All men are, by nature, equally free and independent, and have certain inherent rights, of which, when they enter into a state of society, they cannot, by any compact, deprive or divest their posterity, namely, the enjoyment of life and liberty, with the means of acquiring and possessing property, and of pursuing and obtaining happiness and safety." Can the legislature, in view of these constitutional guarantees, limit or forbid the right of contract between parties under no mental, corporal or other disability, when the subject of contract is lawful, not public in its character, and the exercise of it is purely private and personal to the parties themselves? "The term 'liberty,' as used in the constitution, is not dwarfed into mere freedom from physical restraint of the person of the citizen, as by incarceration, but is deemed to embrace the right of man to be free in the enjoyment of the faculties with which he has been endowed by his Creator, subject only to such restraints as are necessary for the common welfare. Liberty, in its broad sense, as understood in this country, means the right, not only of freedom from servitude, imprisonment or restraint, but the right of one to use his faculties in all lawful ways, to live and work where he will, to earn his livelihood in any lawful calling, and to pursue any lawful trade or avocation." The rights of every individual must stand or fall by the same rule of law that governs every other member of the body politic under similar circumstances; and every partial or private law which directly proposes to destroy or affect individual rights, or does the same thing by restricting the privileges of certain classes of citizens and not of others, when there is no public necessity for such discrimination, is unconstitutional and void. Were it otherwise, odious in-

dividuals or corporate bodies would be governed by one law, and the mass of the community, and those who make the law, by another; whereas, a like general law, affecting the whole community equally, could not have been enacted. *Wally v. Kennedy*, 2 Yerg. 554.

The property which every man has in his own labor, as it is the original foundation of all other property, so it is the most sacred and inviolable. The patrimony of the poor man lies in the strength and dexterity of his own hands; and to hinder him from employing these in what manner he may think proper, without injury to his neighbor, is a plain violation of this most sacred property. It is equally an encroachment both upon the just liberty and rights of the workman and his employer, or those who might be disposed to employ him, for the legislature to interfere with the freedom of contract between them; as such interference hinders the one from working at what he thinks proper, and at the same time prevents the other from employing whom he chooses. A person living under the protection of this government has the right to adopt and follow any lawful industrial pursuit not injurious to the community, which he may see fit. And, as incident to this, is the right to labor or employ labor; make contract in respect thereto, upon such terms as may be agreed upon by the parties; and to inherit, purchase, lease, sell and convey property of every kind. The enjoyment or deprivation of these rights and privileges constitutes the essential distinction between freedom and slavery, between liberty and oppression. These principles have been fully recognized and announced in many decisions of the Supreme Court of the United States, and other courts. *Yick Wo v. Hopkins*, 118 E. D. 356, 6 Sup. Ct. Rep. 1084; *Slaughter House Cases*, 16 Wall. 36; *Butchers' Union Co. v. Crescent City (etc.) Co.*, 111 U. S. 746; *In re Jacobs*, 98 N. Y. 98; *People v. Marx*, 99 N. Y. 377; *Ex Parte Westfield*, 55 Cal. 550; *Ragio v. State*, 2 Pickle, 272; *State v. Divine*, 78 N. C. 778.

The vocation of an employer, as well as that of his employé, is his property. Depriving the owner of property of one of its attributes is depriving him of his property, under the provisions of the constitution. *People v. Otis*, 90 N. Y. 48. The right to use, buy and sell property, and contract in respect thereto, including contracts for labor,—which is, as we have seen, property,—is protected by the constitution. If the legislature, without any public necessity, has the power to prohibit or restrict the right of contract between private persons in respect to one lawful trade or business, then it may prevent the prosecution of all trades, and regulate all contracts.

No one questions the position that, unless the government intervene to protect property and regulate trade, property would cease to exist, and trade would exist only as an engine of fraud; but this does not authorize the government to do for its people what they can do for themselves. The natural law of supply and demand is the best law of trade. In *Munn v. Illinois*, 94 United States, 113, and other cases involving the same questions, the Supreme Court of the United States has held that persons or corporations engaged in occupations in which the public have an interest or use, may be regulated by statute. But the reasons assigned for these decisions are that the public has a use in these occupations, and that the persons engaged in them are in the exercise of a public franchise, or special privileges, not enjoyed by others not so engaged; that their business implies a trust or public duty; and that the government has, therefore, the power to see that the trust is not abused, and that the duty imposed by it is properly performed. On this principle, statutes have been upheld which regulate the charges of railroad companies and other common carriers; elevators, telephone, telegraph and other companies; hackmen, warehousemen, owners of water-mills, etc. But we are aware of no well-considered case in which a statute has been upheld that undertook to regulate the dealings between employer and employé, even in this class of occupations; much less in cases that are not impressed with a public trust or duty. But the claim is made that the legislature should pass the act now in question, in the exercise of the police power which every sovereign state possesses. That power is very broad and comprehensive, and is exercised to promote the health, safety

and welfare of society. But this power, however broad and extensive, is not above the constitution, which is the supreme law; and, so far as it imposes restraints, the police power must be exercised in subordination to it. *In re Jacobs*, 98 N. Y. 98; *Cooley, Const. Lim.* 719; *Mugler v. Kansas*, 123 United States, 623. Generally, it is for the legislature to determine what laws and regulations are proper, in the exercise of the police power; but if it passes an act ostensibly for the public health or safety, and thereby destroys or takes away the property of a citizen, or interferes with his rights or personal liberty, then it is for the courts to determine whether it is proper and reasonable exercise of the power, and, if it is not, to declare it void. The right to regulate the rate of interest existed at the time the constitution was adopted, and cannot, therefore, be considered as either an abridgement or restraint upon the right of the citizen guaranteed by the constitution. The power to pass usury laws existed by immemorial usage; but that is not the case with such laws as we are now considering.

In view of what the courts have uniformly held in respect to this class of legislation, it is needless to prolong this discussion. It is a species of sumptuary legislation which has been universally condemned as an attempt to degrade the intelligence, virtue and manhood of the American laborer, and foist upon the people a paternal government of the most objectionable character, because it assumes that the employer is a tyrant and the laborer an imbecile.

This decision was afterwards re-affirmed by the same court in case of *State v. Fire Creek Coal Co.*, in which the court says:

"The ground on which this act is condemned is, that it is class legislation, and an unjust interference with the rights, privileges and property of both the employer and the employé, and places upon both the badge of slavery, by denying to one the right of managing his own private business, and assuming that the other has so little capacity and manhood as to be unable to protect himself or manage his own private affairs. For these reasons and upon the principles announced in the opinion of this court in *State v. Goodwill*, hereinbefore referred to, we hold the said fourth section of the act aforesaid unconstitutional and void."

## PART B.

REPLY OF THE COAL MINERS TO THE PROTEST AND  
ARGUMENT OF THE COAL OPERATORS OF ILLI-  
NOIS, AGAINST ADVERSE LEGISLATION.

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*To the Members of the 37th General Assembly:*

GENTLEMEN—The right to petition or appeal to the members of the General Assembly for such relief as legislation can afford is one of the privileges common to the people living under a republican form of government. The right to petition also carries with it the equal right to protest against the enactment of laws calculated to operate injuriously against any class of citizens. The coal operators of this State, feeling that their property interests were in danger, because of certain measures now pending before your honorable body, have availed themselves of the opportunity extended to all, and submitted for your consideration a protest in the form of a carefully prepared argument setting forth their objections to such legislation in the hope that your judgment and subsequent action might be influenced in regard to the measures to which special and supposed important objections are urged in the protest here referred to.

Your commendable action so far, in regard to labor legislation, is of such a character as to impress us with the force and honesty of your intentions to deal fairly with the claims of the class of wage-workers, whom we represent, and were it not for the fact that the public, whose good opinion we desire to retain, might be deceived by the false and misleading statement contained in the argument of the operators, no reply from us would at this time be necessary.

A desire to present the facts of the situation and to point out to you the groundless character of the arguments they make that you might more fully understand, and therefore more intelligently act in your dealing subsequently with the proposed legislation against which so much virulent opposition is being urged, prompt us to answer as briefly as possible the statements set forth in their protest.

*Weekly Pay-bill.*—First of all, we invite your attention to the nature of the objections they present to the weekly pay-bill, which has since, by your votes and the Governor's signature been made the law of our State, and consider it a remarkable, if not providential coincidence, that on the afternoon of the day their protest was submitted to you, the House by a vote unanimous, with the exception of one, passed judgment in favor of the class whose necessities such legislation is designed to relieve. The enactment of the law has by no means tempered the opposition to its enforcement, it will therefore be in order to analyze the grounds upon which they urge objections.

They allege to begin with that the object of such legislation is to give to the miner more than he now has, and that he can not receive more without taking something from them. While the enactment of such leg-

isolation is to make better the condition of the class to whom it specially applies, it does not follow that any one will be deprived of anything lawfully acquired and properly belonging to him. It would be more correct to say that the avowed intention of the act providing for weekly pays is merely to force compliance with the equitable rule of allowing to each what honestly belongs to him, and where it is a matter of wages, at such intervals as most suits the convenience of those who may have earned the same, that they might meet and discharge their obligations without having the burden increased through waiting upon the pleasure of the employers. They say that custom has decreed a settlement at the end of thirty days—that is to say all their business is conducted upon the basis of thirty days' time or credit, and that to pay wages oftener than thirty days, would injure business by interfering with the customs and conditions governing the trade of the country. If the operators intended by the latter part of this statement to convey the impression that the portion of the state of Illinois devoted to the production of coal constitutes the country, there might be some grounds for the objection, as it is the country—especially the coal country east of them and with which they compete in the markets, have by a system of weekly and semi-monthly pays, departed long ago from the custom they now seem so anxious to preserve and continue.

The period of credit embraced in business transactions in no sense affects their ability to pay weekly. To sustain this as a reason would require them to prove that their monthly or yearly production was shipped at the same moment of time—a proposition no less absurd than many of the other reasons (?) urged against the passage of pending legislation. Realizing that your sagacity as business men would at once question the doubtful foundation upon which this alleged reason rests, and that your judgment could not be influenced thereby, they fall back upon a favorite hobby of theirs and with an interest bordering on pious zeal for the moral welfare of their employes, impress upon you the solemn duty of defeating all such legislation that their workmen might avert the horrors of drunkenness which they assert would be encouraged, should wages be paid more frequently than once a month. We emphatically deny and can disprove the statement made by them that pay-day at the mines mean "one, two or three days' idleness" on account of the drinking habits of their men. This is one of the statements made to apply to all the men that fits only exceptional cases, and contains a particle of truth just large enough to render it more vicious in its effects than a whole falsehood. They do not mean that the mines are absolutely idle for the time stated—what they do mean, but fail to state, is that a few of the employes may lose some time on account of it being pay-day. No cause can succeed through deception. Why not be honest in making a statement? We have too many important truths to tell without indulging in the spirit of the boaster, but we challenge any operator in the state and shall pay him the sum of one hundred dollars merely to cover the cost of procuring evidence to prove when his mine was idle two days in succession because the employes were all drunk.

If it be the purpose, however, of these self-appointed promoters of morality to enforce temperance among their employes, and knowing, as they allege, that a pay once a month means from one to three days' idleness on account of drunkenness, we would suggest that much time might be saved that is now lost and much monthly debauchery avoided by paying once, say every twelve months, or if the holy purpose be to enjoin the strictest form of total abstinence, this desirable condition could be reached by a positive refusal to pay wages at all, a double advantage could be secured through the adoption of the latter policy. The employers could save not only all the wages of their men, including the expense incident to making out pay-rolls, but secure at the same time the lasting favor of divine providence in preventing the cultivation of vicious, degrading habits on the part of the workmen.

To the credit of the modern man who is daily furnishing evidence of improvement, let it be said that the very opposite of this is true, and

that the facts resulting from experience where shorter intervals between pays prevail, are directly opposed to the unjust assumptions made by the operators.

If anything is calculated to promote and encourage dissipation it is the system of long intervals between pays. Where wages are paid most frequently, industry has been encouraged, and as a consequence, intemperance correspondingly repressed.

Another argument upon which the operators rely to sustain their point is the statement that the industrious coal miner now earns as much, if not more, than any of the skilled mechanics. To support this claim they select from different parts of the State, certain miners whose monthly earnings are represented to run from \$90 to \$136. It is no less unfair to select special men working under the most favorable conditions, working long hours, and in most cases assisted by one or two sons or helpers whose names do not appear on the pay-rolls, as representing the earnings of coal miners generally considered, than it would be to mention the names of men like Gould or Vanderbilt and hold them up to society as a criterion of what an honest business man could make without first specifying the peculiar conditions under which their vast wealth has been acquired. If the miners named in the protest had actually earned the sums credited to them, it would yet fail to support their claim that the amounts earned removed the necessity for legislation.

Whatever may be in their claims in this respect is entirely destroyed when we assert and supplement the statement by the sworn affidavits of the men whose names are cited for being industrious miners, that they did not earn unaided the amounts given opposite their names.

It is only necessary to refer to a few items under the head of "No legislation needed to increase miners' wages" to demonstrate the utter unreliability of the coal operators' figures and completely refute their gross misrepresentations.

Mr. Harry Penn, of Coal City, according to the statement, earned \$136.20 for the month of March, 1891. Now what are the facts? Mr. Penn swears that \$51.60 was all the money he earned for March, 1891. The secretary of the Star Coal Company, in whose mines Mr. Penn is employed, admitted in conversation to one of our members that there was a mistake in the time, and that the \$136.20 was earned in March, 1890. Mr. Penn, during the month of March of the year last named, was employed as a check-weighman for the miners there and paid by them. As an employé of the miners, like them he run a certain number in the office of the company and deducted a certain amount of coal per diem from the daily quantity sent out by the men, from which his wages was paid. In addition to this, the miners had engaged a man to pick the coal that dropped from the cars while being conveyed to the bottom of the shaft, for which the miners agreed to pay \$2.10 per day, and all the coal sent on top by him had to be credited to the same number as that run by the check-weighman; then at the end of the month he received the wages agreed upon, the balance, if any, being retained by the check-weighman's committee.

The figures as given by Mr. Penn are as follows: Amount of money drawn from the office March, 1890, \$135.95. From this sum deduct \$54.70 paid to the check-weighman, \$44.44 paid to Frank Rossa, the coal picker, and you have a balance of \$36.81, which remained in the hands of the committee. This statement is sufficient to expose the dishonest and deceiving figures of the operators.

In regard to the case of John Clark, another Coal City miner whose wages are mentioned, the same misleading manoeuvre is resorted to. The record shows that Mr. Clark drew from the office in January of the present year \$118.75, and in the following month \$103.10. What are the facts as sworn to by the parties themselves? Clark works in a room in one of

the Coal City mines; in the same place with him are employed his son and nephew (Mr. Ed. Murphy), neither of whose names appear on the company's pay sheets. The amount credited to Clark, \$118.75, therefore represents the earnings or wages of three able-bodied men, which, divided by three, leaves as the actual earnings for the month the sum of \$39.58 per man—certainly not too much money for men whose thrift and industry merits mention in public print.

In the case of Nick Bennett and boy, mentioned by the operators, we are in possession of a sworn statement to the following effect: That the expenses incurred to earn the amount mentioned were as follows: Powder, six kegs, \$15; oil, 75 cents; blacksmithing, \$2.70; incidental expenses, 75 cents; making a total of \$20.20, which is not mentioned in the operators' statement, and which comes out of Mr. Bennett's earnings. Furthermore, Mr. Bennett's boy can perform as much work as an average miner. When we divide \$135, which is the actual gross earnings, between two, after deducting expenses, it leaves just \$52.40 each. Those same men for the month of December, 1890, earned \$110.67, with total expenses of \$16.75, leaving their net earnings \$93.92, or \$46.96 each. The two months named were the best for work the miners had during a long period, and as Mr. Bennett testifies, under the most favorable conditions so far as he was concerned. The cases here referred to are no doubt a fair sample of all quoted by them, and would, on investigation, prove to be utterly unreliable as a basis upon which to found an argument in support of their side in this controversy. The only fair method of ascertaining the amount of wages annually earned by coal miners is to strike an average representing the earnings of the ordinary miners. Below we give the figures of average earnings from the report of the Bureau of Labor Statistics, from which they (the operators) quote, compiled with much care, and, presumably, in the main, correct:

## OFFICIAL STATISTICS FOR 1889.

Total number of tons of coal produced in hand mines for the year.....	11,597,963
Average price per ton.....	40 73
Gross earnings for the year.....	\$8,466,512 99
From which deduct actual expenses of producing coal—	
Powder, 198,831 kegs, at \$2.75 per keg.....	\$546,784 00
Cost of oil per man, \$1 per month.....	20,922 00
Cost of squibs, 40 cents per month.....	5,230 50
Cost of smithing, 50 cents per month.....	10,461 00
Tools, wear and tear per man per year, \$10.....	17,434 83
	\$600,432 33
Total net earnings.....	\$7,866,080 66
Number of miners employed in summer.....	18,261
Number of miners employed in winter.....	23,583
Average number for the year.....	20,922
Average net earnings per man per year.....	\$375 95
Average net earnings per man per day.....	\$1 20

From the above, which does not include either fuel or house rent—two important items—it will be seen that the average daily earnings of the coal miners employed in the pick mines is but \$1.20 per day—\$7.20 per week. Supposing the average number in a family to be five, this amount leaves for the support of each per day the princely sum of less than twenty-one cents, or not enough to purchase an ordinary dinner at a common restaurant. Yet you are gravely informed by the operators, many of whom spend more for whisky in a single night than an average miner can earn in an entire week, that there is no necessity for increasing wages.

*The Gross-Weight Bill.*—We now proceed to examine the objections to the gross-weight bill. We feel that the facts will justify us in asserting that nothing has contributed so much to create discord and friction between miner and operator than the present method of screening, or paying only for lump coal.

During the last few years, through the power of organization among the miners, screens at some places in the State have been reduced in size. Where no organization, or but an imperfect one exists, screens are large enough to permit of the passage of good sized lump coal through the bars. In their argument they say, "Whatever tends to increase the proportion of 'lump coal', prevents the waste of coal." Yet, under the present method of paying only for screened coal, many of them not satisfied with screens, the dimensions of which correspond and adjust themselves to the prevailing villany of the moment, place what is known as "breakers" in the chutes to diminish the proportion of "lump," and increase the quota of so-called slack, that returns from mine investments might be augmented at the expense of the underpaid miner. Paying for coal weighed on railroad scales after having passed over screens, but few of which correspond in size, simply allows to the employer the power to determine the value of the miner's labor aside from any agreement as to the price per ton.

There is no law in this State limiting the size of coal screens, and as a consequence, they are known to vary all the way from seven-eighths of an inch between the bars, to two and one-half inches, with a difference in superficial area of from fifty to one hundred and thirty feet. The diversity here presented emphasizes the necessity for establishing a system of weighing coal that would result in greater uniformity. Even in those portions of the State where screens are smallest in dimensions (small only when compared with larger ones), the contracts which in many places the miners are forced to sign, distinctly state that any greater width than that specified in the agreement, shall not be construed as a violation of the contract.

The varying quantities of coal passing through the different-sized screens in use at the present time in this State is almost clear profit to the operators, as the price paid for mining is invariably based upon market price for lump coal. When the price of "lump" coal in the market goes down, wages, as represented by the price paid per ton, are reduced accordingly. The enormous revenue derived from screenings can be best appreciated when trial cases are considered.

The capacity of a coal mine located on the Illinois Central Railroad was tested some time ago. The total output for ten hours' hoisting showed a production of 1,095 tons, of which 509 tons, or nearly one-half, passed through the screens, most of it merchantable coal, for which the miners received no compensation. This is but a sample of the screening system, and shows what it may yet develop into. Many of the coal companies signing the protest are as much opposed to this extraordinary species of robbery as we, yet oppose the removal of a system that permits and encourages it. The burden of their argument upon this matter, like that on the weekly pay-bill, is to degrade the character of their employes. In the former case, they assert that to pay oftener than once a month means to encourage, unnecessarily, the vice of intemperance, while to enact a gross-weight law is simply rewarding unskillfulness, and placing a premium upon dishonesty. If miners, as a class, were as vicious and untrustworthy, as the insinuations indicate, the contamination resulting from close relationship would seem to furnish a justification for much of their own unscrupulous conduct. If what is intimated was true—which we can disprove—charity for others and a consideration of personal defects, should restrain the weakness of promiscuous accusations.

It is alleged by them that any other method of weighing and paying for coal other than the present one, which, we take it to be your intention to displace by the enactment of a gross-weight law, would result in the production of a less merchantable article; because miners would not be so careful, and send up slack and dirt instead of coal. We have already referred to the practice, quite general in some places, of putting breakers in the screens for the purpose of destroying a greater portion of the "lump" or merchantable coal, that profits might be enlarged through in-



creased screenings; that they should oppose the enactment of a law that in their judgment would have the same effect as present practices, presents a striking illustration of the weakness and inconsistency of the human mind.

A few words only are required to utterly refute their arguments upon this point. The same means for preventing the introduction of unclean coal would be at their command under a gross-weight system of weighing, as under the one now in general use. The enforcement of the gross-weight plan does not contemplate the abolition of screens so far as the employers are concerned. It relates only to the method of weighing and paying for coal mined. Mine owners, in order to prepare the coal for sale in the market, must take from it some of the unavoidable dross, and for this purpose screens are, and will continue to be a necessity. Under a gross-weight law, receiving no profits from indiscriminate screening, operators would be more interested in taking from the miner's car all that was really merchantable in the form of lump, and not seek to diminish its value by making several divisions of the product, a practice encouraged by the present method of paying only for so-called screened coal.

There is positively no ground, except one of slander, for the declaration that under a gross-weight system miners would produce an inferior article. Any practical miner familiar with the art of producing coal—and if their be any not familiar with the business, the operators are responsible for their employment and should not complain at the nature of their product—knows that the value of his labor under either method (where open robbery is not practiced) is entirely determined by the kind of coal produced. The object of practical miners is always to produce the greatest quantity of lump with the least percentage of slack.

Were miners now paid for slack it would still be unprofitable to produce it, as the labor involved is about the same, while the weight, which measures wages, is considerably less. We repeat, and the record of mine-production will support the statement, that practical men under any system, do, and will produce the largest possible quantity of lump coal. They only fail to do this when the keen eye of the operator discovers the latest device in the form of a crusher to impair the value of the miner's product.

*The Truck-Store Bill.*—Following the order of their protest we will now consider their objections to the truck-store bill.

From no other source (screens only excepted), do the proprietors of coal mines derive more revenue than from company stores, or "pluck-me's," as they are better and more correctly known in mining communities. The theory of evolution as applied to the human race, seems to hold good in the development of the truck system. From a small shanty in which tools, oil, squibs, powder, etc., were sold for the convenience of employés, the plant has grown until capable of absorbing the largest share of the business in small mining towns and in which everything calculated to meet human needs—from a cradle to a coffin—can be secured by simply presenting at the counter the check of the company issued in lieu of cash.

They plead in their protest for a continuation of the privilege to monopolize trade—which carries with it the coercion of employés to patronize the store on fear of dismissal, because "at mines where there are no company stores" (listen ye law makers) "garnishments are apt to be numerous and a fruitful source of unnecessary expense to the miner."

Here again we have a sample of the paternal, almost divine care exercised by the employer in behalf of the improvident and helpless employé. Had they been disposed to tell the truth they would have assured the object of their paternal solicitude that when the plant reached the healthy proportions of mature manhood, and when the policy of coercion is carried out, which is true in some form, wherever a truck-store exists, the resulting impecunious condition of the average employé would operate as a perpetual set off against the annoyance of garnishee proceedings.

Miners in common with other classes of wage-workers are opposed to the principle of the truck system, because experience has forced them to regard such institutions as a menace to the rights and liberties of the citizens.

The claim made by the beneficiaries of such supply houses that no compulsion is used to force employés to deal at such places is as groundless as the many other excuses they offer.

Had we the time, scores of affidavits could be furnished from respectable, industrious coal miners who had either suffered discrimination or were dismissed from the company's employ for the reason in some cases openly explained that they did fail to deal, or did not take sufficient from the company store, and discharges for this disguised under a different pretext, are constantly occurring in the mining regions of the state.

We believe that when a miner receives his wages, if there be any when deductions are taken out, he should not be influenced, not even by the company's expectation that he should deal at the company store, and that in a country of whose freedom we boast he should not imperil his chances of employment as he now does by exercising the right to invest his earnings in such a manner as in his judgment will bring the most returns. The denial of the individual's right, whether expressed or implied, to deal where he pleases, while important, is but one of the many objections that can be urged against the truck-store, and in favor of legislation designed to remove it.

To make employment conditional upon dealing at the company store, which is more or less true in most mining communities, is an unnatural diversion of trade and a positive injustice to merchants doing business in an open market. The injurious effect of this diversion of trade from natural channels is painfully apparent in mining towns as shown by the fearful depreciation of land and other values.

This is true, notably at Braidwood and other old mining centers, when the truck-store was established subsequent to the building up of the city. Buildings that rented a few years ago at \$75 per month cannot get takers at \$5. Homes that cost \$700 to erect can now be bought for less than \$200. No private institution is strong enough to withstand the terrible competition of a truck-store—especially when the bulk of the business comes from the miners' trade, and where the practice is, if not absolutely to conditional work, upon trading at the store, at least to favor those most who are considered the best patrons.

The managers of such institutions are not satisfied with placing restrictions upon the liberty of the individual, (and you will observe by their protest that it is in the name of liberty—the right to make a private contract—that they hope to avert the force of your judgment upon them) but frequently inflict the additional injury of charging higher prices than the same goods can be purchased for elsewhere. This modern operation wears the aspect of a double crime; they first deprive the employé of his liberty, and then in the form of increased prices, punish him for being a slave.

What have the operators to say in favor of truck-stores? Here is the defense in their own words:

"Many of these outside stores keep intoxicating liquors. Company stores do not keep intoxicating liquors, and if the operators or coal miners had the power to prohibit altogether their sale at or near the mines, or the legislature would do so, it would do more to promote the health, safety and general welfare of the miners than any law that could be enacted."

The lameness of this plea as a justification for the truck system when we consider the nature of its effects on general business, not to speak of the more important matter of personal liberty, reminds us of the case of the boy who upon being convicted of the murder of his father and mother, pleaded with the judge for a pardon on the grounds that he was a poor orphan. As a matter of fact, the claim that they do not sell in-

toxicating liquor like other stores, to which they contemptuously refer, is not true. A man can poison his soul with the vile decoctions stored away in the drug corner of a company store just as readily, if not as cheaply, as he can in the lowest grocery in the land. There was purchased, some time ago, from the store owned by one of the operators whose name appears in the list of signatures to the protest, by one man in a single month no less than thirty bottles of whisky, under the delusive name of "bitters," the most adulterated and dangerous compound. Another instance suggests itself at a different place where a miner was discharged for losing time on account of being drunk, made so from the effects of "peach brandy," purchased with checks at the company store.

The truck system, as we know it, is an unmitigated evil, and the attention of the members of your honorable body cannot be engrossed with a subject of greater importance, not only to those who are directly made its victims, but to the business men located in or adjacent to mining towns, than the work of wisely legislating it out of existence.

*Eight-hour Day Bill.*—The nature of their opposition to the eight-hour day as shown in their criticism of the bill having this restriction in view, is, if anything, less reasonable than the other objections they offer. In their present hostile attitude to this coming reform, they simply repeat the foolish arguments made by their predecessors a half a century ago. The claim now made by them that the enforcement of an eight-hour day would, under present conditions, operate as a confiscation of property and result in loss to them and others, is nothing more than the reflection of the silly prophecies made by employers of long ago, who fortunately lived long enough to realize the great blunder they had made in opposing a reduction of the hours of toil. More wealth is produced in less time to-day than ever before. Progress in art and invention has made possible, with diminished hours, a greater production. Instead of property depreciating, values have increased, and, with greater development of inventive genius, will continue to do so under the limitation fixed by an eight-hour work-day.

Employers who openly oppose a shorter work-day are fighting against fate and flying in the face of every tendency of modern civilization.

With a power to produce much in excess of demand, with values declining as a necessary consequence, no reform proposed at this time, promises the coal operators a surer or more practical relief from the disadvantages resulting from an overcrowded market than the contemplated action of the miners to enforce the eight-hour work-day. When the benefits accruing from its general adoption are fully realized by miner and operator alike, they will then understand and deprecate their present opposition. It is needless to notice objections to this proposed reform. Every impulse of modern life declares for it. The only effect the strongest opposition can have is to delay it for a short time, it certainly cannot prevent the coming change which is destined to make better the conditions of all, whether securing a livelihood through the instrumentality of brawn or brain.

*Arbitration Law.*—Nothing will surprise the ordinary person so much as the seemingly unnecessary opposition of the operators to the proposed arbitration law. While our experience confirms the opinion that operators, as a class, are indisposed to submit the equities of their case during an industrial dispute to an impartial tribunal, which an arbitration board is intended to be, we never thought their natural cunning would permit them to go publicly on record as against the enactment of a law the object of which would be to prevent strikes, and give as far as possible to each their own. The alleged freedom they are clamoring for, but seemingly so ready to deny to others, is the sole ground upon which they endeavor to construct a defense for their opposition to the enactment of an arbitration law. They declare, without assigning any good reason therefor, that the effect of the enforcement of such a law would administer a death blow to private rights, and that while it operated, no man's property interests would be safe. They seem to forget that Illinois, in attempting

to establish arbitration by law, is merely following in the footsteps of other states, where such laws have for years been in force, and that the general effect of their enactment has been to preserve, and not destroy, property interests. If property interests are in danger, it is due more to the stubborn opposition of employers, who seek to arbitrarily make terms, and then refuse to reason, than from any other cause. Much of the trouble experienced in labor centers could be easily avoided were the operators or employers willing to arbitrate the questions at issue, and we maintain that where thousands are directly engaged, and the welfare of thousands of other people depending upon their uninterrupted employment, where a suspension is liable to be precipitated through a refusal of the employers to reason, which is another name for arbitration, no alleged private rights should stand in the way of public policy; that in such an emergency, it becomes the duty of the State, looking only to the best interests of its citizens, to compel, if necessary, a thorough investigation, to the end that the facts might be known and future trouble thereby averted.

The necessity for a state tribunal, to which differences between employers and employes might be referred for adjudication, has long been apparent, and frequently reiterated the demands of labor organizations.

Under the present organization of industrial societies, it is foolish to expect that arbitration could or would prove a cure for all the evils growing out of the present false and ungoverned relations existing between the employed and employing classes. All that can be hoped from the enforcement of this principle is to prevent suffering through honorable compromise, and by mutual concessions lessen the severity of conflicts, and by establishing confidence in place of suspicion, aid in removing some of the causes that lead to strikes and lock-outs. Corporations being but the creation of state power, are necessarily proper subjects for state regulation. If the welfare of any considerable number depends upon the adjustment of some labor differences, other than by the barbarous strike method, both parties should, if need be, be compelled to appeal to a board organized to settle disputes of that character, and then forced to recognize the decision reached. The law pertaining to civil affairs will not permit disputants to injure themselves and inflict punishment upon others over a personal quarrel. That it should permit trade interests to engage in warfare attended with greater public and private loss, displays the anomalous defects in our state and national enactments.

In Massachusetts, New Hampshire, New York and other states, where arbitration boards have been organized by law, strikes have been materially reduced in consequence of the law's operation. This is all we claim in support of such enactments. They furnish, at little or no expense to the parties in dispute the opportunity for testing the equities of their claims. If either party refuse to submit their case, they inferentially proclaim the weakness of their cause, and add to the others' chance of success—the power of public opinion at all times a strong factor in the settlement of labor troubles.

Labor should be treated as a brain force as well as a hand power, and state boards of arbitration emphasize this distinction.

When interests are in this manner joined, whether by force of law or individual willingness, the operative becomes the confidential servant of his employer, and it puts the manufacturers above the suspicion of reducing the poor man's wages to fill his own pocket.

When a strike is declared before reason is resorted to—as is often the case—the disposition to win, whether right or wrong, triumphs; pride usurps the place of justice, and prolongs the contest by aggravating the cause. The parsimonious class who object to the passage of such laws involving, as they do, the creation of state or district boards, and base their opposition on the ground of economy, should remember the old adage, "prevention is better than cure," and that in the end it is much cheaper for the State to support a bureau, the function of which would be to aid in preventing strikes, to establish amicable relations between elements now disposed to fight, and to peaceably compromise difficulties

when they do arise, than suffer the inconvenience of an interruption in trade, and the painful humiliation of having law-abiding citizens shot down by an armed force during an industrial disturbance.

The rights of the individual must be secondary to those of the greater and more important body of which he is but a part. Where the enforcement of rights (purely private) conflicts, and threatens to frustrate public policy, the lesser must surrender to the greater, and the will of the many prevail.

If our aristocratic employers see in the assertion of this power, as they intimate, a danger of bringing the moneyed interest down upon a level with the propertyless class, their anathemas should be hurled, not against the wage-worker, but our form of government that recognizes no power greater or no right more sacred than the judgment of the majority freely expressed.

In behalf of ourselves and other wage-workers, who, under present practices, are liable at any time to be made the victims of one man's whim, and to aid in preventing a repetition of the awful scenes enacted during labor disputes, an arbitration law should be passed before adjournment, strong enough in its provisions to respect the rights of capital and broad enough in its features to properly protect the interests of labor.

*Check-Weighman.*—Not even the minor amendments proposed to the new law in regard to check-weighman escape the attention and opposition of the operators.

A bill is pending before your body to amend paragraph B of section 3 of the present law in relation to check-weighman by simply striking out the words, "shall be an employé of the person or persons operating the mine."

The object of the proposed change is that selections might not be confined to any one mine. While the miners, under this law are supposed to exercise the right of selecting any one from among their number to act as check-weighman, the practical effect of the practice is that the employer really determines or limits the choice of the men by exercising the right to object, which he frequently does, going so far as to cease operating his mines until the man selected by the miners was dismissed. While they regard it as a terrible assault upon private rights for workmen to attempt to dictate whom they shall employ, they seem to see no injustice in denying their workmen this privilege, as they substantially do when they protest against the choice of the miners in this respect under the present law. They say the miners have the right to select "any one on the pay-roll of the mine operators," and then in proof of what we say as to limiting the choice of the miners, even in one mine, insert later on the important qualification, "any one not inimical to our interests." To place this construction upon the present law is to render null and void its principal provisions, and explains the necessity for the proposed amendment that miners' selections of such officials should not be controlled as now by the wishes of the employer.

When miners employ a man to do work for them they should be allowed as much liberty in making a selection as the operator takes in choosing a weigh-boss for the company.

*Conclusion.*—We have noticed the last objection to pending legislation in the protest submitted to you by the operators, with the exception of the constitutional reasons urged against the enactment of such laws. Our respect for the value of your time as members of the 37th General Assembly restrain us from following their example by adding here as an appendix the constitution of the State, with decisions of supreme courts upon laws, many of them passed by the legislatures of other states. We feel no more capable of dealing with the constitutional questions involved in the legislation here considered than the operators, but unlike them are perfectly willing to permit the highest tribunal of the State to determine such matters, without endeavoring to instruct the court or in any manner anticipate its conclusions. It has always occurred to us that the interest

displayed by the person relying upon his own construction of the constitution, to defeat legislation betrays the doubtful character of his legal knowledge, besides casting reflections upon the motives. If the measures here considered are all unconstitutional, why all this anxiety about their enactment? That violent opposition to measures in open violation of state law, as they assure us, should be continued, indicate the insincerity of their position, and reveal the character of the effort made to prejudice the judgment and influence the action of the General Assembly.

It is publicly intimated that the operators will not comply with the requirements of your act for weekly pays (and you must have been impressed with the somewhat remarkable fact that opposition to a legislation touching alike every corporate interest in the State seems to be entirely confined to the coal operators) that they propose to treat with contempt your verdict, and make with their employes such contracts governing the time when wages shall be paid as they have for many years been in the habit of making.

It remains yet to be seen whether the will of the majority, as expressed in the laws you enact, can be treated in this manner.

As wage-workers we are opposed to anarchy under whatever form it may assume, and consider it the highest and holiest duty of the loyal citizen to render obedience to the laws of the land.

Signed on behalf of the miners,

Alex. Morton, Braceville.  
 • William Cunningham, Central City.  
 Edward McGlennon, Springfield.  
 John McGuiirk, Springfield.  
 Mike Salmon, Colfax.  
 John E. Riley, Braidwood.  
 George S. Davis, Springfield.  
 Charles Carroll, Sorrento.  
 J. R. Edwards, Sparta.  
 R. Cook, Barclay.  
 James Baker, LaSalle.  
 H. H. Hill, Beard's shaft.  
 J. S. Eubanks, Taylorville.  
 M. P. Morris, Kingston mines.  
 W. C. Parsons, Spaulding.  
 Stephen Bowen, St. Davids.  
 Samuel Johnson, Oglesby.  
 Joseph Manuel, Grape Creek.  
 William Gardner, LaSalle.

Daniel McBryde, Spring Valley.  
 John Miller, Spring Valley.  
 William Hood, Dawson.  
 John Jasper, DuQuoin.  
 John Patton, Gardner.  
 G. T. Scott, Centralia.  
 James McBurney, Edinburg.  
 Samuel Skelton, Coal City.  
 William Tinman, Diamond.  
 J. L. Parsons, Riverton.  
 Isaac J. Clark, Lincoln.  
 J. Graham, Pottstown & Edwards.  
 James Johnson, Peoria.  
 George W. Murray, Middle Grove.  
 Eugene Zellers, Athens.  
 Robert Baxter, Seatonville.

M. J. GOINGS, Pres. and M. W.  
 EBEN HOWELLS, Sec. Treas.

*United Mine-Workers of Illinois.*